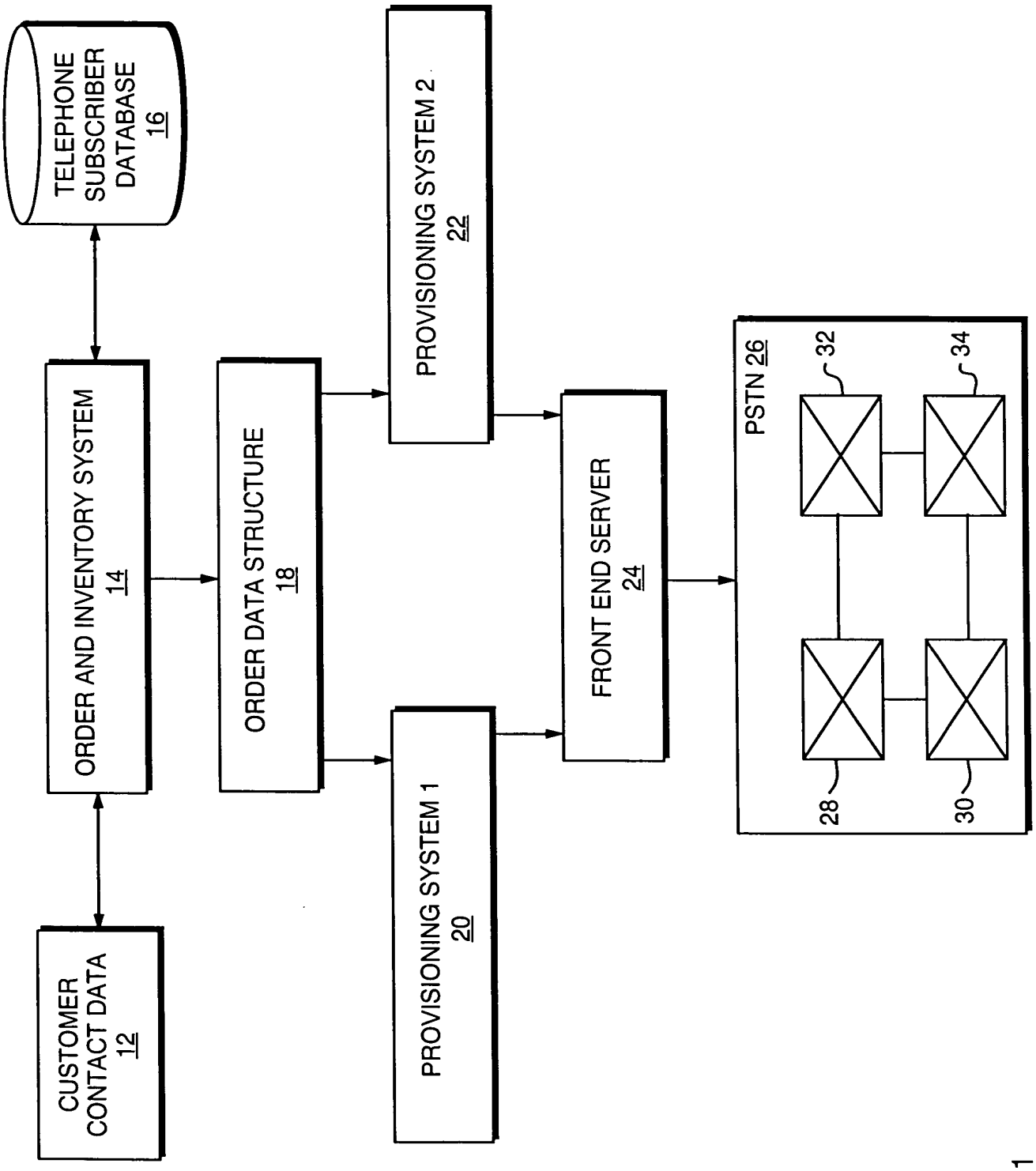
TELEPHONE SUBSCRIBER DATABASE 16
ORDER AND INVENTORY SYSTEM 14
CUSTOMER CONTACT DATA 12
ORDER DATA STRUCTURE 18
PROVISIONING SYSTEM 2 22
PROVISIONING SYSTEM 1 20
FRONT END SERVER 24
PSTN 26
32
34
28
30
10

FIG. 1

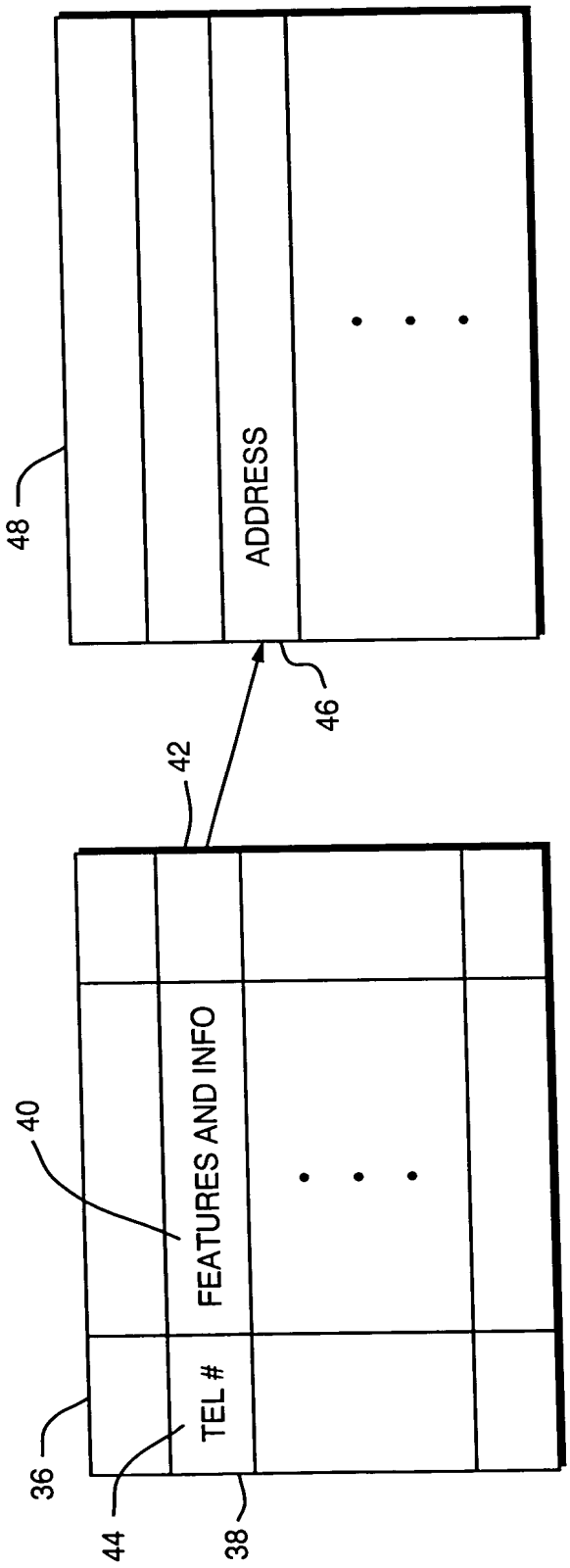

FIG. 2

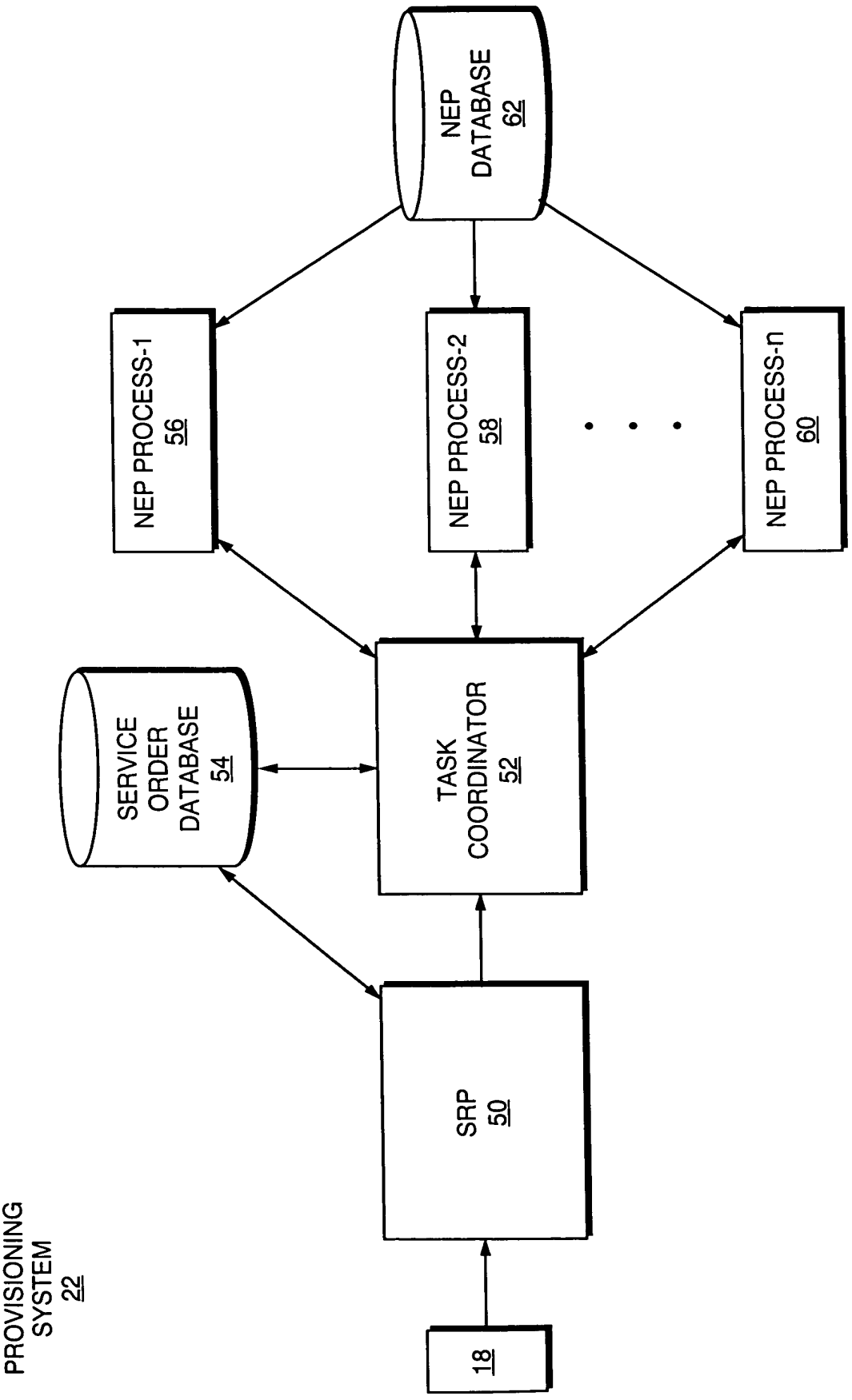
NEP DATABASE 62
NEP PROCESS-1 56
NEP PROCESS-2 58
NEP PROCESS-n 60
SERVICE ORDER DATABASE 54
TASK COORDINATOR 52
SRP 50
18
PROVISIONING SYSTEM 22

FIG. 3

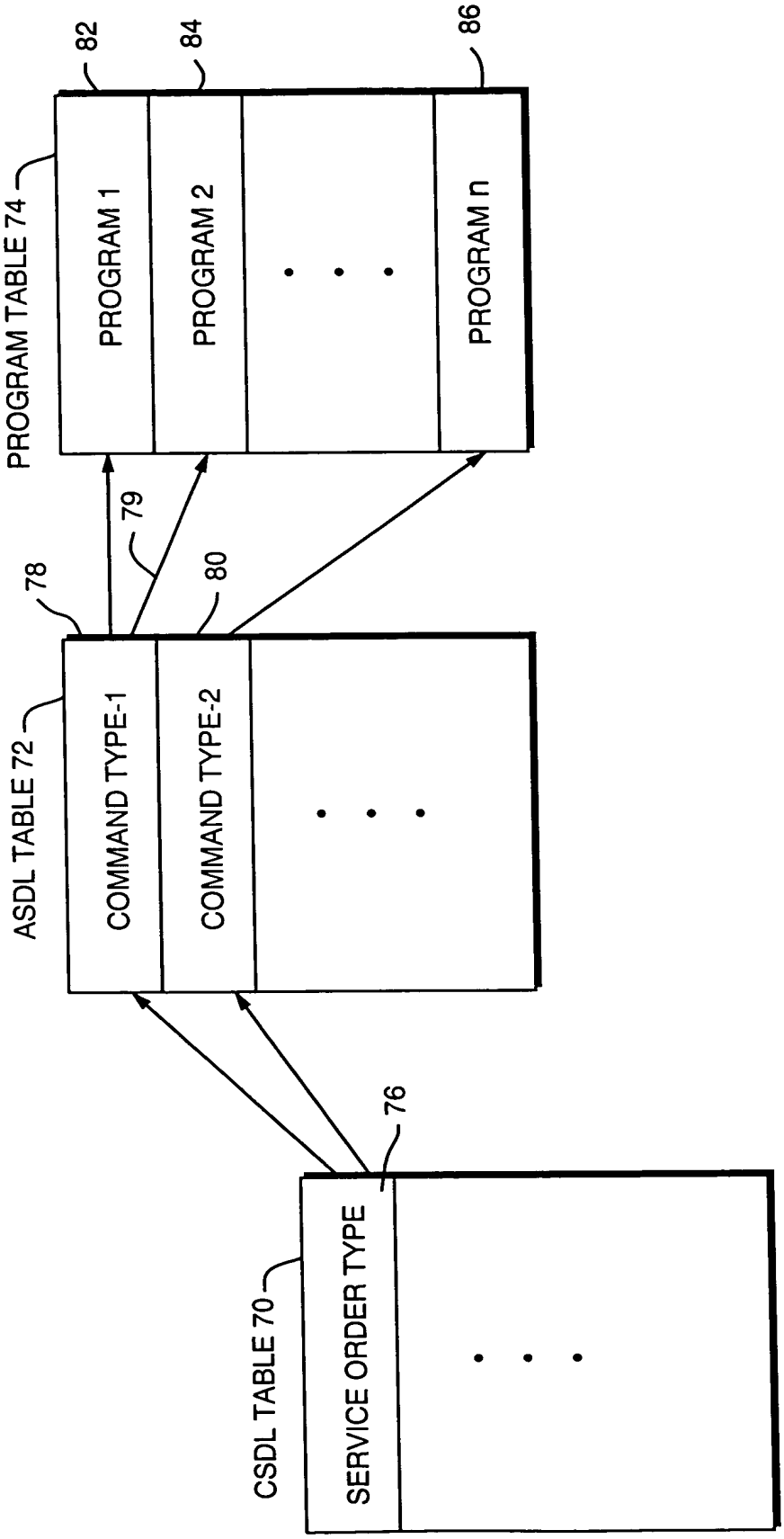
82
84
86
PROGRAM TABLE 74
PROGRAM 1
PROGRAM 2
PROGRAM n
79
78
80
ASDL TABLE 72
COMMAND TYPE-1
COMMAND TYPE-2
76
CSDL TABLE 70
SERVICE ORDER TYPE

FIG. 4

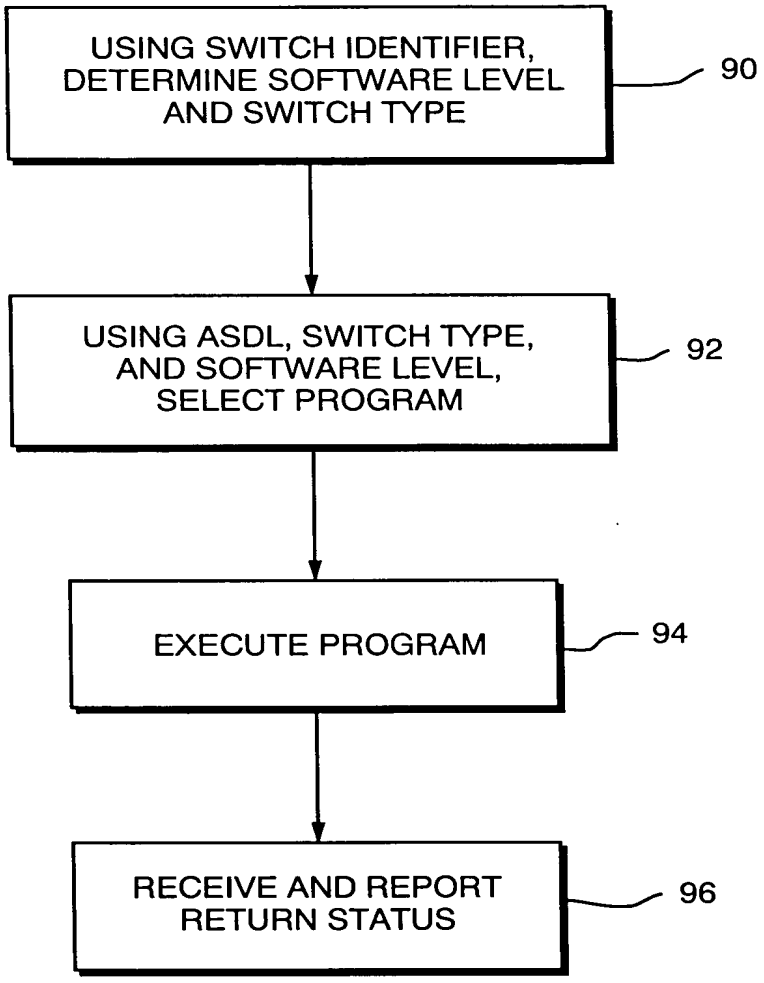
USING SWITCH IDENTIFIER, DETERMINE SOFTWARE LEVEL AND SWITCH TYPE
90
USING ASDL, SWITCH TYPE, AND SOFTWARE LEVEL, SELECT PROGRAM
92
EXECUTE PROGRAM
94
RECEIVE AND REPORT RETURN STATUS
96

FIG. 5

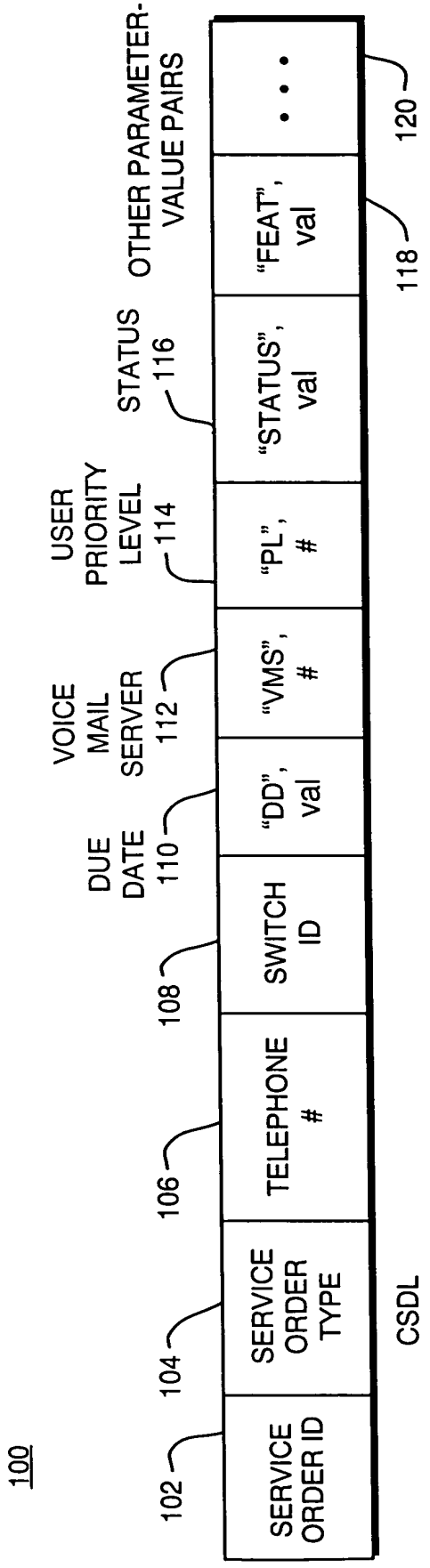
100
SERVICE ORDER ID
102
SERVICE ORDER TYPE
104
TELEPHONE #
106
SWITCH ID
108
DUE DATE
110
"DD", val
VOICE MAIL SERVER
112
"VMS", #
USER PRIORITY LEVEL
114
"PL", #
STATUS
116
"STATUS", val
"FEAT", val
118
OTHER PARAMETER-VALUE PAIRS
• • •
120
CSDL

FIG. 6

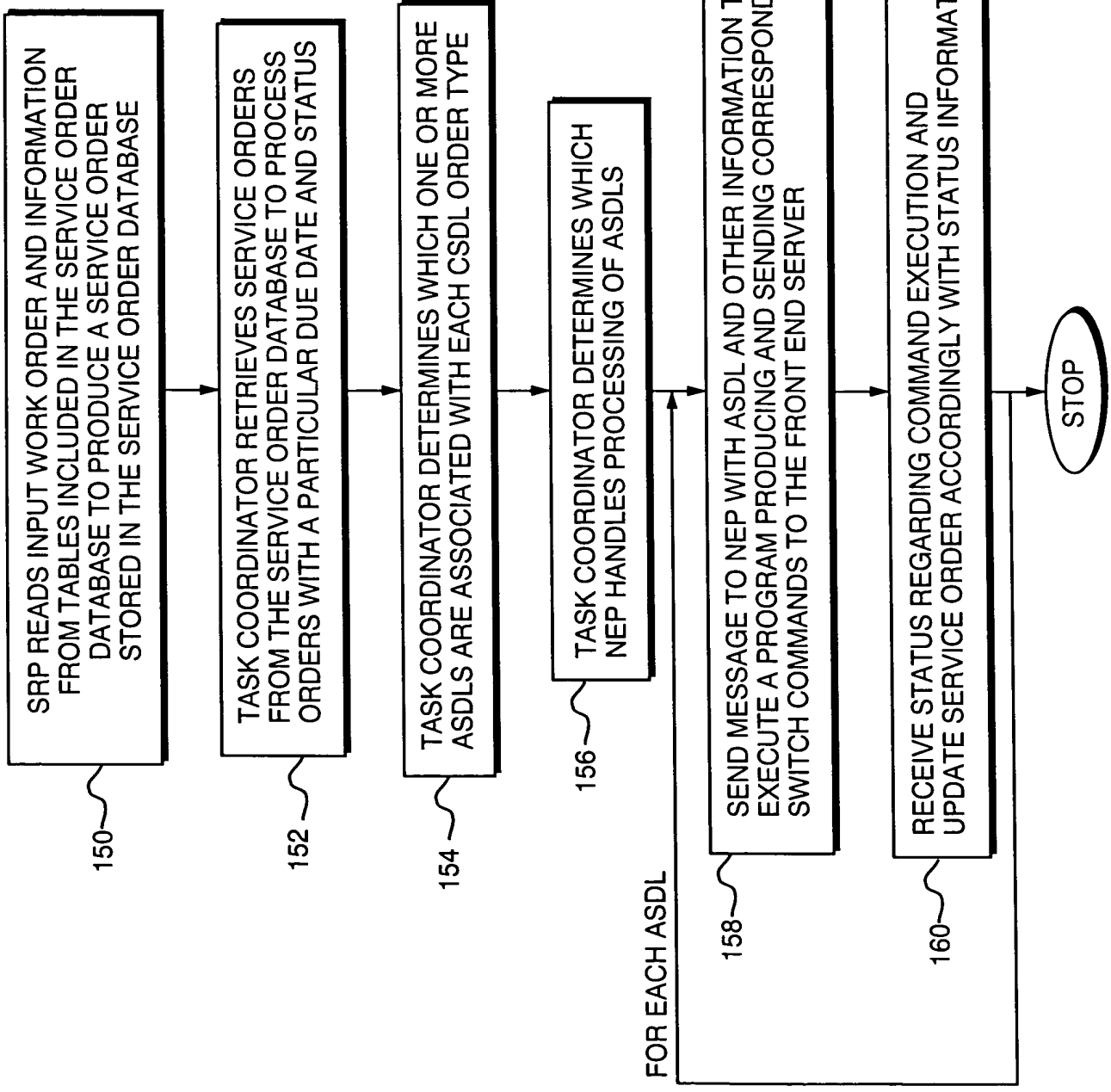
SRP READS INPUT WORK ORDER AND INFORMATION FROM TABLES INCLUDED IN THE SERVICE ORDER DATABASE TO PRODUCE A SERVICE ORDER STORED IN THE SERVICE ORDER DATABASE
150
TASK COORDINATOR RETRIEVES SERVICE ORDERS FROM THE SERVICE ORDER DATABASE TO PROCESS ORDERS WITH A PARTICULAR DUE DATE AND STATUS
152
TASK COORDINATOR DETERMINES WHICH ONE OR MORE ASDLS ARE ASSOCIATED WITH EACH CSDL ORDER TYPE
154
TASK COORDINATOR DETERMINES WHICH NEP HANDLES PROCESSING OF ASDLS
156
FOR EACH ASDL
SEND MESSAGE TO NEP WITH ASDL AND OTHER INFORMATION TO EXECUTE A PROGRAM PRODUCING AND SENDING CORRESPONDING SWITCH COMMANDS TO THE FRONT END SERVER
158
RECEIVE STATUS REGARDING COMMAND EXECUTION AND UPDATE SERVICE ORDER ACCORDINGLY WITH STATUS INFORMATION
160
STOP

FIG. 7

SRP TASKS
150

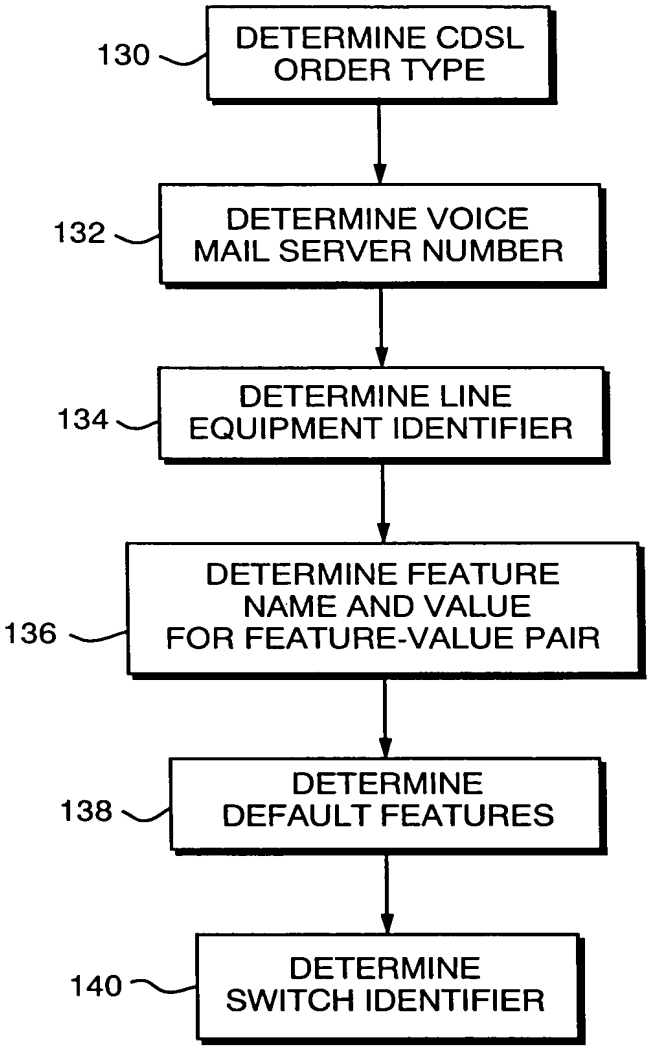

FIG. 8

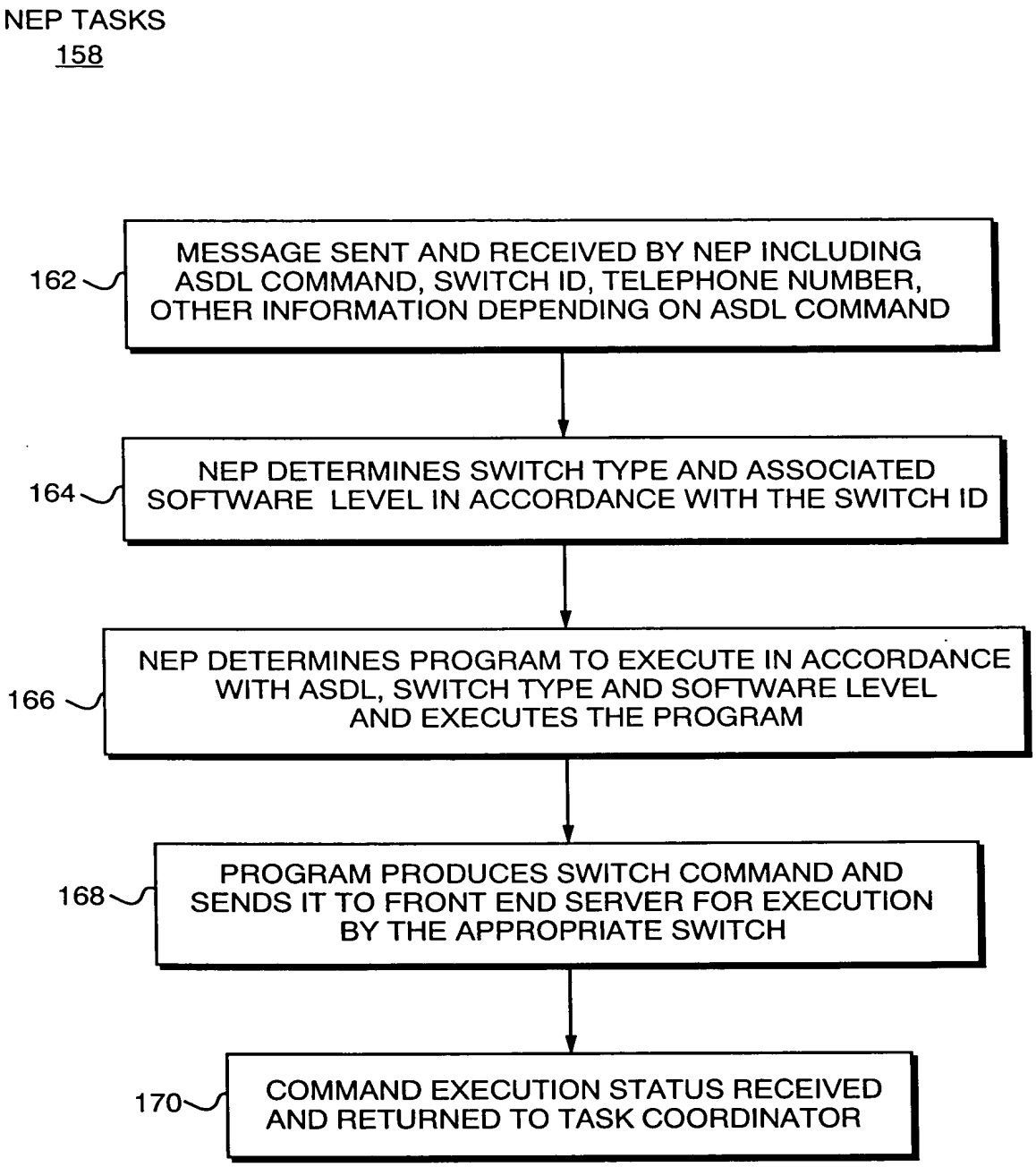
NEP TASKS
158
162
MESSAGE SENT AND RECEIVED BY NEP INCLUDING ASDL COMMAND, SWITCH ID, TELEPHONE NUMBER, OTHER INFORMATION DEPENDING ON ASDL COMMAND
164
NEP DETERMINES SWITCH TYPE AND ASSOCIATED SOFTWARE LEVEL IN ACCORDANCE WITH THE SWITCH ID
166
NEP DETERMINES PROGRAM TO EXECUTE IN ACCORDANCE WITH ASDL, SWITCH TYPE AND SOFTWARE LEVEL AND EXECUTES THE PROGRAM
168
PROGRAM PRODUCES SWITCH COMMAND AND SENDS IT TO FRONT END SERVER FOR EXECUTION BY THE APPROPRIATE SWITCH
170
COMMAND EXECUTION STATUS RECEIVED AND RETURNED TO TASK COORDINATOR

FIG. 9

CSDLs and descriptions: 180 182

C-ADD_HUNT_MEMBER	Adds another member to an existing hunt group
C-ADD_LH_SERVICE	Initializes a hunt group with one or more members
C-ADD_SERIES_MEMBER	Adds another member to an existing series-completion hunt group
C-ADD_VIRTUAL_ECF	Initializes a single line with virtual enhanced call forwarding service
C-CHANGE_BILL_MODE	Changes from flat rate to measured rate or vice versa
C-CHANGE_DIAL_MODE	Changes from dial pulse to touch call or vice versa
C-CHANGE_EQUAL_ACCESS	Changes long distance carrier(s)
C-CHANGE_FEATS	Modifies an existing service by adding or deleting features
C-CHANGE_HUNT_GROUP_SIZE	Changes the maximum size of a hunt group
C-CHANGE_HUNT_LNI	Changes line equipment for a member of a hunt group
C-CHANGE_HUNT_MEMBER_TDN	Changes the telephone number for a member of a hunt group
C-CHANGE_LINE_EQUIPMENT	Changes line equipment for an existing service
C-CHANGE_LINE_LOAD_CNTL	Changes the parameter that controls priority in service restoration after an outage
C-CHANGE_RCF	Changes the remote call forwarding number for an existing service
C-CHANGE_RING_CODE	Changes the ringing frequency for an existing service

FIG. 10A

C-CHANGE_RSOU	Changes the originating routing indicator
C-CHANGE_SMART_RING	Changes the distinctive ringing (teen) number
C-CHANGE_TDN	Changes the telephone number
C-CLEAR_LNP_TRIGGER	Clears the local number portability indicator
C-DELETE_HUNT_GROUP	Deletes a hunt group
C-DELETE_HUNT_MEMBER	Deletes a member of a hunt group
C-DELETE_LINE	Deletes a single line
C-DELETE_LNP_PORT	Deletes a line and sets an indicator that the telephone number is ported to another switch
C-DELETE_SERIES_MEMBER	Deletes a member of a series-completion hunt group
C-DEL_LH_SERVICE	Deletes a hunt group and all of its members

184

FIG.10B

180 182

C-DEL_VIRTUAL_ECF	Deletes a service with virtual enhanced call forwarding
C-INIT_EDT_LINE	Initialize an express dial tone service (left-in-place vacant line)
C-INIT_HUNT_GROUP	Initialize a hunt group
C-INIT_HUNT_GROUP_PILOT	Initialize a hunt group pilot
C-INIT_NON_HUNT_LINE	Initialize a single line service
C-INIT_OPERATOR_INTCPT	Initialize operator intercept service
C-LINK_HUNT_GROUP	Connect two hunt groups together
C-LINK_SERIES_MEMBER	Connect one member of a series-completion hunt group to another member
C-MODIFY_LH_SERVICE	Modify the members of an existing hunt group
C-RAW_COMMAND	Send an already-generated command
C-REMOVE_OPERATOR_INTCPT	Remove a telephone number from operator intercept service
C-RESTORE_CARRIER	Restore long distance service to a single line after it was suspened
C-RESTORE_HUNT_GRP_LOCAL	Restore local service to a hunt group after it was suspended
C-RESTORE_LOCAL	Restore local service to a single line after it was suspended
C-SET_LNP_TRIGGER	Change a service from working to ported out status
C-SUSPEND_CARRIER	Suspend long distance service for a single line
C-SUSPEND_HUNT_GRP_LOCAL	Suspend local service for a hunt group
C-SUSPEND_LOCAL	Suspend local servive for a single line
C-UNLINK_HUNT_GROUP	Disconnect two hunt groups

185

186

FIG. 11

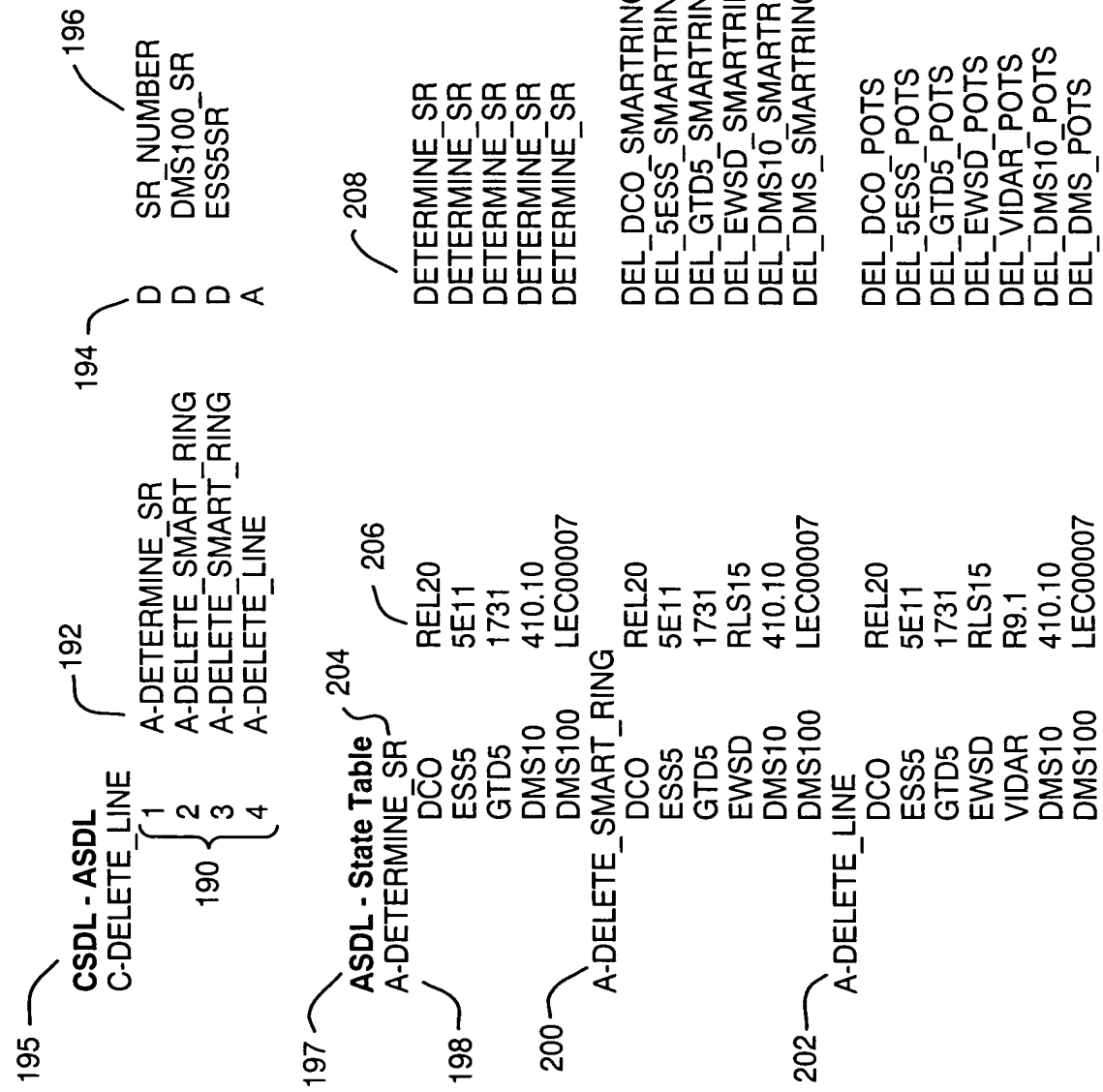
C-DELETE_LINE
195
CSDL - ASDL
C-DELETE_LINE
192
1 A-DETERMINE_SR
2 A-DELETE_SMART_RING
3 A-DELETE_SMART_RING
4 A-DELETE_LINE
190
194
D
D
D
A
196
SR_NUMBER
DMS100_SR
ESS5SR
197
ASDL - State Table
204
206
208
A-DETERMINE_SR
DCO REL20
ESS5 5E11
GTD5 1731
DMS10 410.10
DMS100 LEC00007
198
DETERMINE_SR
DETERMINE_SR
DETERMINE_SR
DETERMINE_SR
DETERMINE_SR
200
A-DELETE_SMART_RING
DCO REL20
ESS5 5E11
GTD5 1731
EWSD RLS15
DMS10 410.10
DMS100 LEC00007
DEL_DCO_SMARTRING
DEL_5ESS_SMARTRING
DEL_GTD5_SMARTRING
DEL_EWSD_SMARTRING
DEL_DMS10_SMARTRING
DEL_DMS_SMARTRING
202
A-DELETE_LINE
DCO REL20
ESS5 5E11
GTD5 1731
EWSD RLS15
VIDAR R9.1
DMS10 410.10
DMS100 LEC00007
DEL_DCO_POTS
DEL_5ESS_POTS
DEL_GTD5_POTS
DEL_EWSD_POTS
DEL_VIDAR_POTS
DEL_DMS10_POTS
DEL_DMS_POTS

FIG 12A

CSDL Description:

This CSDL deletes a working service. The first ASDL is executed if the Smart Ring number is present on the Work Order, and determines the switch type. If the switch is a DMS-100, it sets the DMS100_SR parameter, which causes the second ASDL to be executed. If the switch is a 5ESS, it sets the 5ESS_SR parameter, which causes the third ASDL to be executed. For other switch types, it is not necessary to delete the Smart Ring number explicitly.

The second ASDL deletes the Smart Ring number if the switch is a DMS-100 and the Smart Ring number is defined. The third ASDL deletes the Smart Ring number if the switch is a 5ESS and the Smart Ring number is defined. The fourth ASDL deletes the line, and is always executed.

FIG 12B

209

DETERMINE_SR

```
# This state table prepares data for determining
# if SMARTRING is present
# It sets the SR parameter which causes the A-ADD_SMART_RING
# ASDL to be executed in C-INIT_NON_HUNT_LINE
# It also sets the DMS100_SR parameter which causes
# the A-DELETE_SMART_RING ASDL to be executed
# in C-DELETE_LINE (for DMS100 only)
# This command determines switch type based on CLLI
# code.

IF_THEN          '%TECH == "ESS5" '
    IF_THEN          '%SR_NUMBER DEFINED'
        SEND_PARAM       'SR "Y"  C'
        SEND_PARAM       'ESS5_SR "Y"  C'
    ENDIF

ELSE_IF          '%TECH == "DMS100" '
    IF_THEN          '%SR_NUMBER DEFINED'
        SEND_PARAM       'SR "Y"  C'
        SEND_PARAM       'DMS100_SR "Y"  C'
    ENDIF

ELSE_IF          '%TECH == "DMS10" '
    IF_THEN          '%SR_NUMBER DEFINED'
        SEND_PARAM       'SR "Y"  C'
    ENDIF
ENDIF

ASDL_EXIT            'SUCCEED'
```

FIG 13

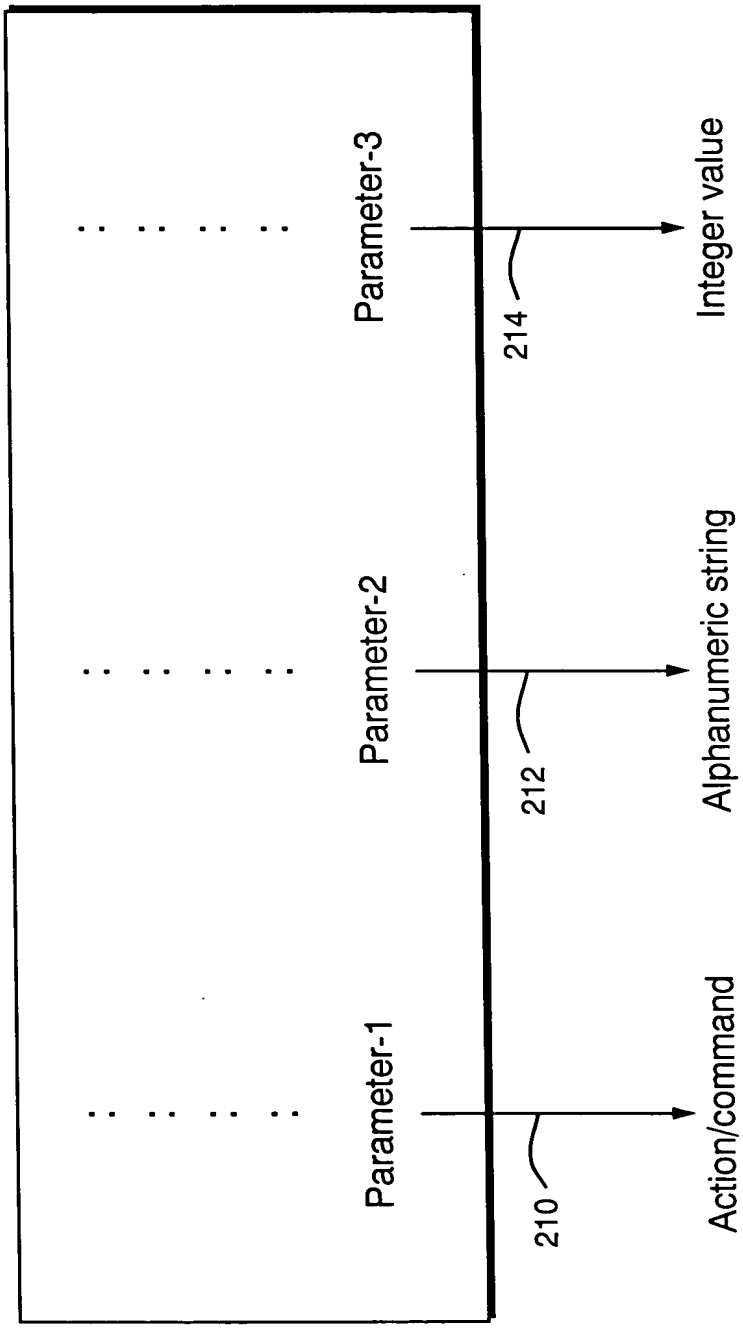
Parameter-3
Integer value
214
Parameter-2
Alphanumeric string
212
Parameter-1
Action/command
210

FIG. 14

```
# This state table adds a single line to a VIDAR                    220
        PAUSE           1
        RESPONSELOG
        CLEAR_VS

# This call puts the spaces into the line identifier                222
        CALL        'LIB_UTIL: :FORMAT_OE'

# This call gets the primary class of service                       224
        CALL        'LIB_UTIL: :GET_SERVICE'                        226
        CALL        'LIB_UTIL: :GET_METRO'

        EXEC_RPC  '%X=SSP_vidar_pcos:%CLLI_CODE:%METRO:%SERVICE_NAME:'
                                                  280    284    286
        IF_THEN     '%X.pcos_code NOT_DEFINED'
           VS_SEND_RESP                                             230
           ASDL_EXIT          'FAIL: DID NOT FIND PRIMARY CLASS CODE ...'
        ENDIF

        CALL        'LIB_VIDAR: :VIDAR_PIC'

# The recent change configuration starts here                       232
        CONCAT    '%CMD=   BLA :  :%TDN:'
        CONCAT    '%CMD=%CMD:  :%LEQ:'
        CONCAT    '%CMD=%CMD:  :%X.pcos_code:'

# This call gets any features ie:' custom calling features, etc.
        CALL          'LIB_UTIL: :ADD_FEATS'
        IF_THEN       '%PARTY_POSITION == 11'
           CONCAT         '%CMD=%CMD: 1:'
        ELSE
           CONCAT         '%CMD=%CMD:   :%PARTY_POSITION:'
        ENDIF

        IF_THEN           '%INTER2_DEFINED'                         234
           CONCAT             '%CMD=%CMD:  PIC1> : '
           CONCAT             '%CMD=%CMD:%INTER2: '
        ELSE
           ASDL_EXIT          'FAIL:  INTER access code is required'
        ENDIF

        IF_THEN           '%INTRA2_DEFINED'
           CONCAT             '%CMD=%CMD:  PIC2> : '
           CONCAT             '%CMD=%CMD:%INTRA2 : '
236     ENDIF
238     SEND              '%CMD'
        SENDKEY           'ENT'                 1
240     CHAIN             'VIDAR_CHECK'
        VS_SEND_RESP
        ASDL_EXIT         'SUCCEED'
```

FIG. 15

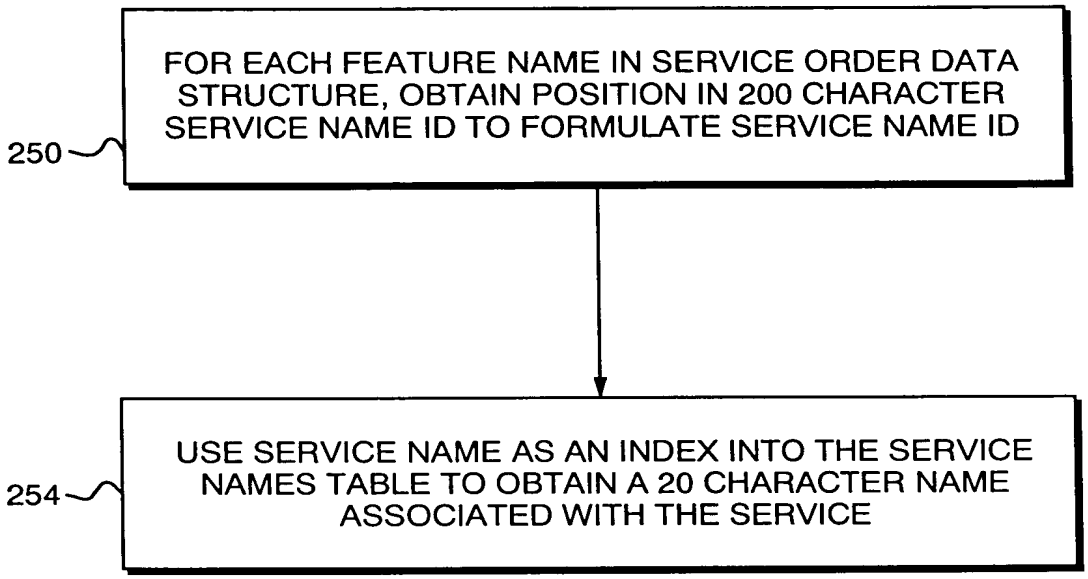
FOR EACH FEATURE NAME IN SERVICE ORDER DATA STRUCTURE, OBTAIN POSITION IN 200 CHARACTER SERVICE NAME ID TO FORMULATE SERVICE NAME ID
250
USE SERVICE NAME AS AN INDEX INTO THE SERVICE NAMES TABLE TO OBTAIN A 20 CHARACTER NAME ASSOCIATED WITH THE SERVICE
254

FIG. 16

310

Office description table

Switch ID	Description

Switch ID is used as a key to other tables. All other tables using Switch ID must have an entry in this table first.

320

Master switch table

Switch ID	office	Switch number	software version	Time zone	type	number of digits to dial	group ID	remote call forward code	operator intercept code 1	operator intercept code 2	suspend code

default pay-per-use code	suspend long distance carrier code	suspend long distance carrier message	restore long distance carrier message	long distance carrier text	calling plan text	operator intercept code 3	call blocking indicator	area code indicator	Account credit management indicator

operator intercept code 4	express dial tone text	operator intercept code 5	Restriction indicator	remote call forwarding indicator	remote call forwarding deletion text

Type determines which other tables will contain data for this switch ID.
Account credit management indicator determines which column to use in Account credit management table.

FIG 17A

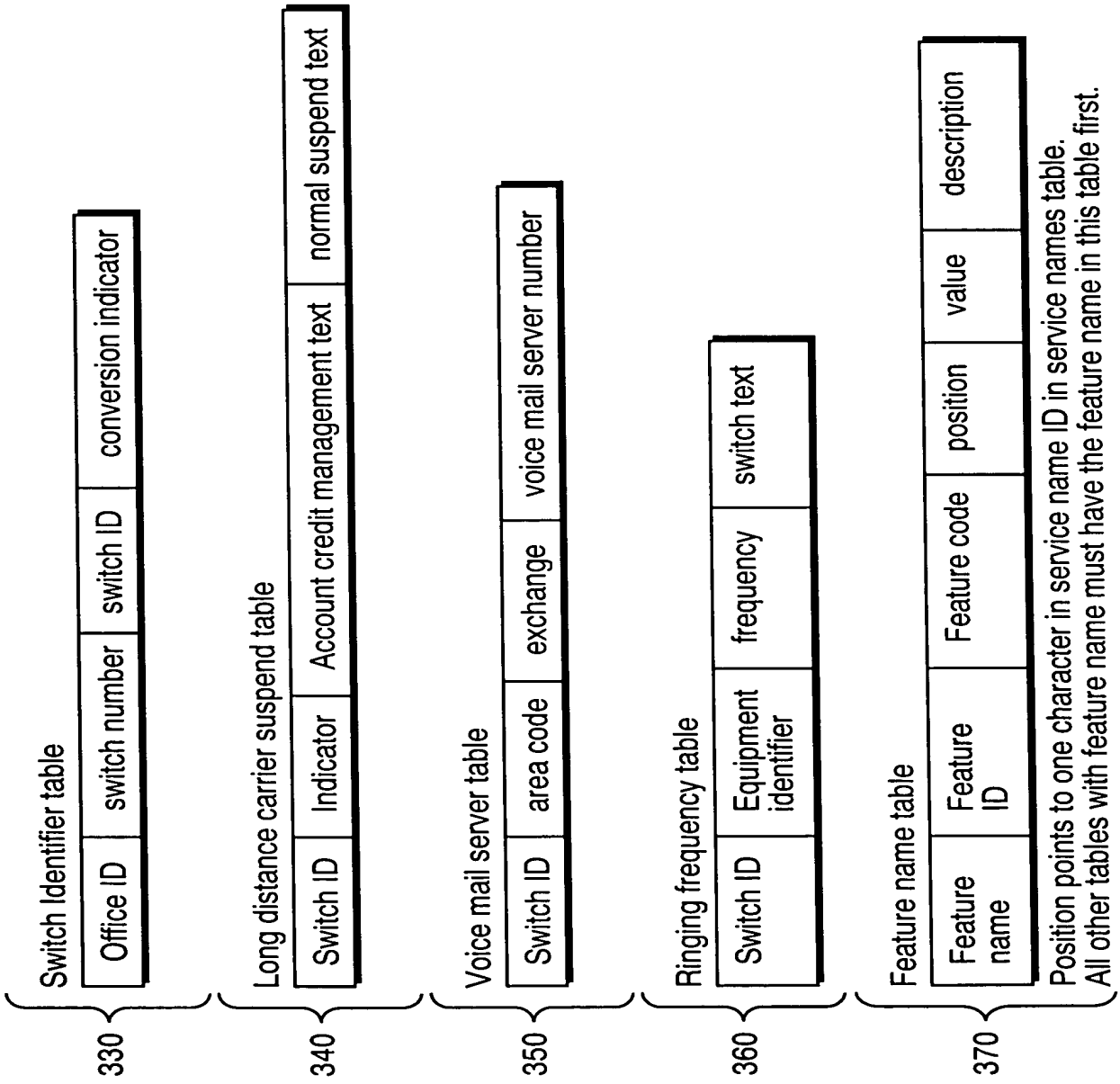
Switch Identifier table
Office ID
switch number
switch ID
conversion indicator
330
Long distance carrier suspend table
Switch ID
Indicator
Account credit management text
normal suspend text
340
Voice mail server table
Switch ID
area code
exchange
voice mail server number
350
Ringing frequency table
Switch ID
Equipment identifier
frequency
switch text
360
Feature name table
Feature name
Feature ID
Feature code
position
value
description
370
Position points to one character in service name ID in service names table.
All other tables with feature name must have the feature name in this table first.

FIG 17B

Feature table 380

Switch ID	Feature name	Text to add Feature	Text to remove Feature	Feature type code

Default Feature table 390

Switch ID	Feature name	Service type

TO FIG. 18B

5ESS switch table 400

Switch ID	Calling plan indicator	Service name	Rate area code	Line class code	Dialing indicator

5ESS switch by telephone number table 410

Switch ID	Calling plan indicator	Service name	Low end of telephone number range	High end of telephone number range	Rate area code

412

DMS100 switch table 420

Switch ID	Calling plan indicator	Service name	Equipment identifier	Local area transport ID	Line treatment group ID

422

GTD5 switch table 430

Switch ID	Calling plan indicator	Service name	Equipment identifier	Frame identifier	Service class code	Secondary service class code

432

DCO switch table 440

Switch ID	Service name	Class feature indicator	Service class code

442

FIG. 18A

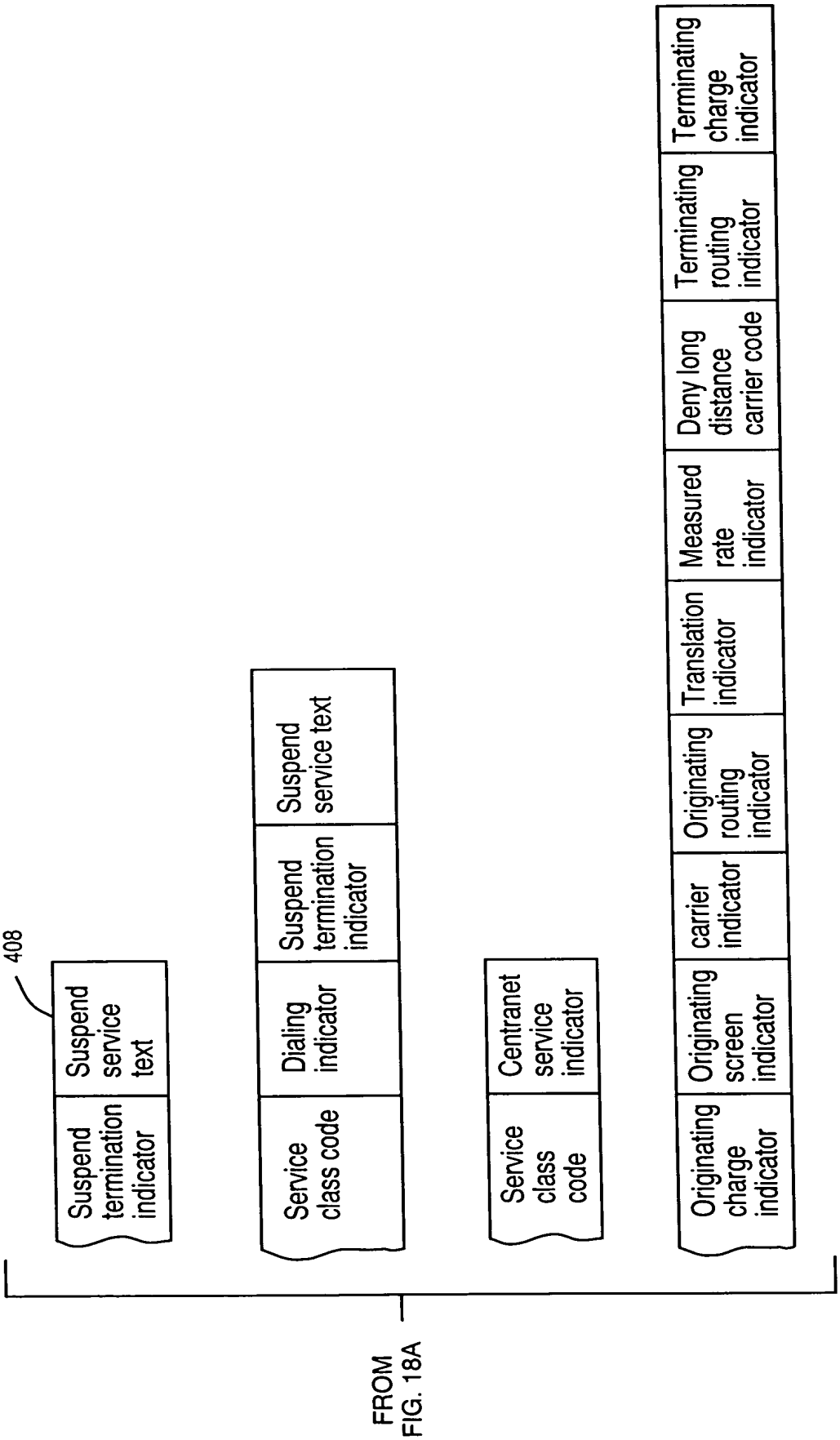
408
Suspend service text
Suspend termination indicator
Dialing indicator
Suspend termination indicator
Suspend service text
Service class code
Centranet service indicator
Service class code
Originating charge indicator
Originating screen indicator
carrier indicator
Originating routing indicator
Translation indicator
Measured rate indicator
Deny long distance carrier code
Terminating routing indicator
Terminating charge indicator
FROM FIG. 18A

FIG. 18B

DMS10 switch table 450

Switch ID	Service name	Service Class code

452

VIDAR switch table 460

Switch ID	Calling plan indicator	Service name	Service Class code

462

Siemens EWSD table 470

Switch ID	Service name	Line class code	Rate area code

472

Calling plan table 480

Switch ID	Exchange code

DMS100 long distance carrier code table 490

Switch ID	Long distance carrier code	Translated long distance carrier code

492

TO FIG. 19B

GTD5 hunt group table 500

Switch ID	Calling plan indicator	Equipment identifier	Frame identifier	Long distance rate code	Other common carrier code	Outward billing mode	Centranet indicator

502

DMS10 equipment prefix table 510

Switch ID	Equipment prefix	Translated equipment prefix

512

DMS10 error code table 520

Error code	Severity indicator	Error text	comment

514

FIG. 19A

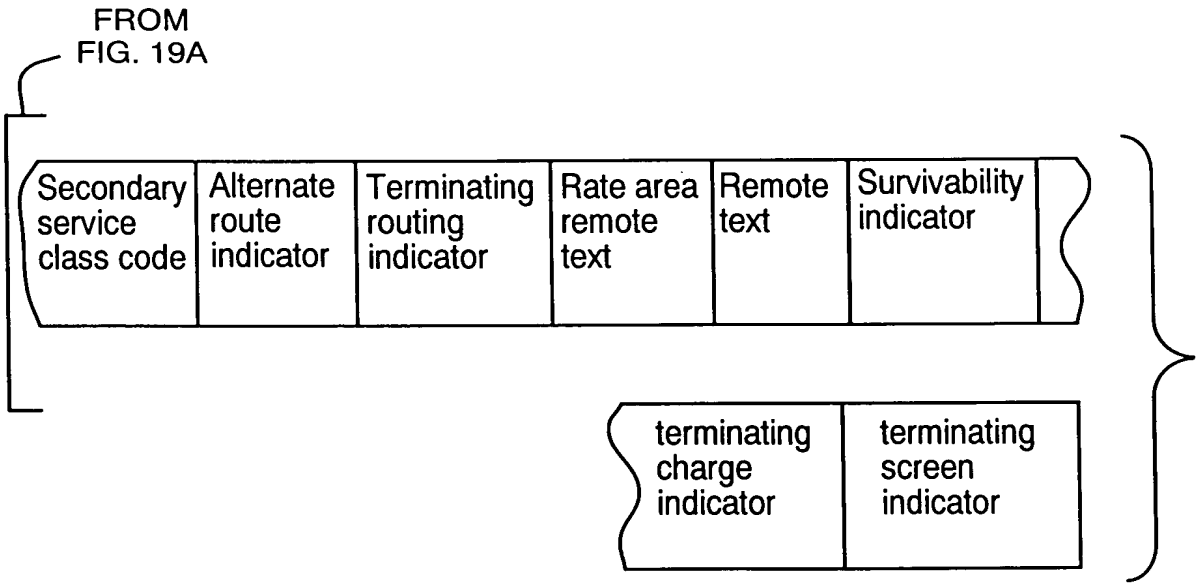
FROM
FIG. 19A
Secondary service class code
Alternate route indicator
Terminating routing indicator
Rate area remote text
Remote text
Survivability indicator
terminating charge indicator
terminating screen indicator

FIG. 19B

equipment translation table 530

Switch ID	Equipment identifier	Translated equipment identifier

532

GTD5 traffic source table 540

Feature type	Feature value	Long distance carrier code	Traffic source value

542

GTD5 pay-per-use feature table 550

User-based three way calling	User-based auto call return	User-based busy number redial	User-based customer-originated call trace	User-based caller no. delivery block	Switch ID	Three-way calling text

552

equipment identifier format table 560

Switch type	Switch software version	Equipment identifier mask

562

Service names table 570

Service name identifier	Service name	comment

572

TO FIG. 20B

Order type table 580

Class ID	Type code	Hunt group code	Hunt group indicator	Member indicator	New telephone number	

582

FIG. 20A

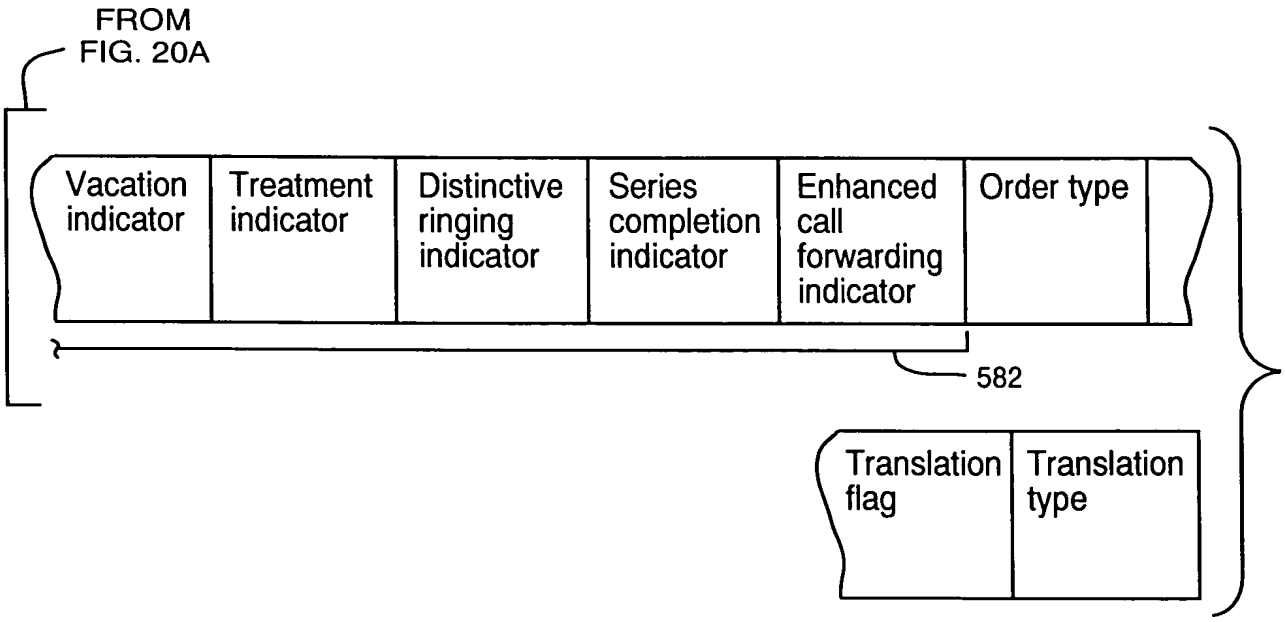
FROM
FIG. 20A
Vacation indicator
Treatment indicator
Distinctive ringing indicator
Series completion indicator
Enhanced call forwarding indicator
Order type
582
Translation flag
Translation type

FIG. 20B

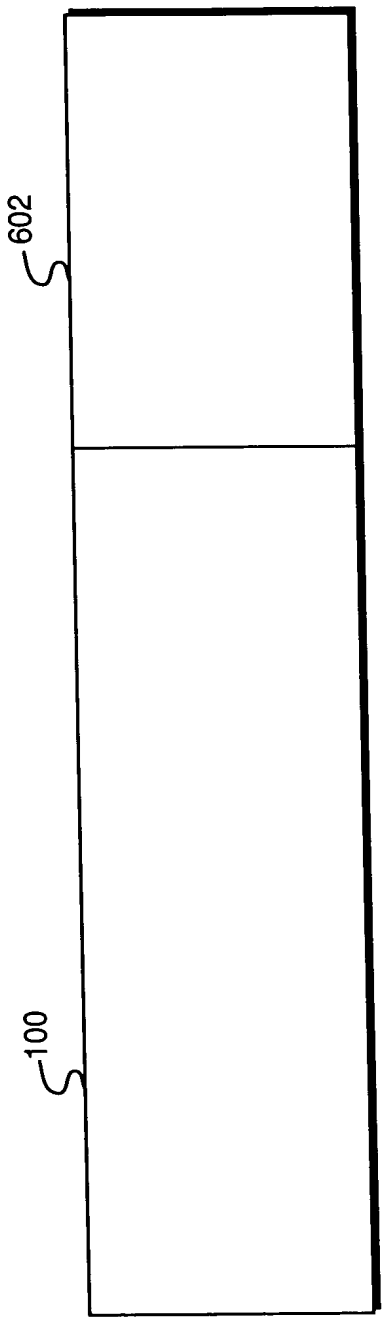

FIG. 21

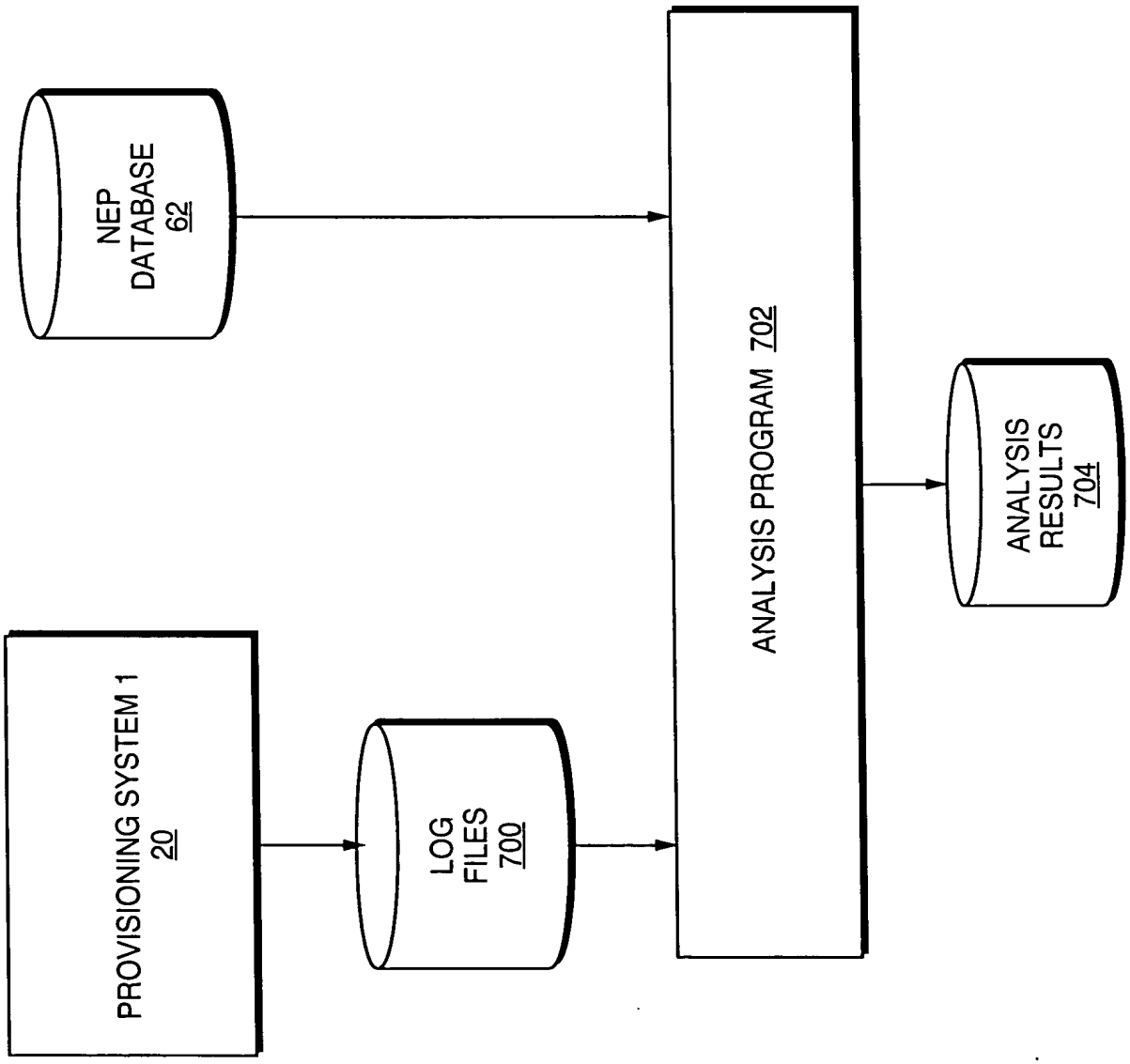
NEP
DATABASE
62
PROVISIONING SYSTEM 1
20
LOG
FILES
700
ANALYSIS PROGRAM 702
ANALYSIS
RESULTS
704

FIG. 22

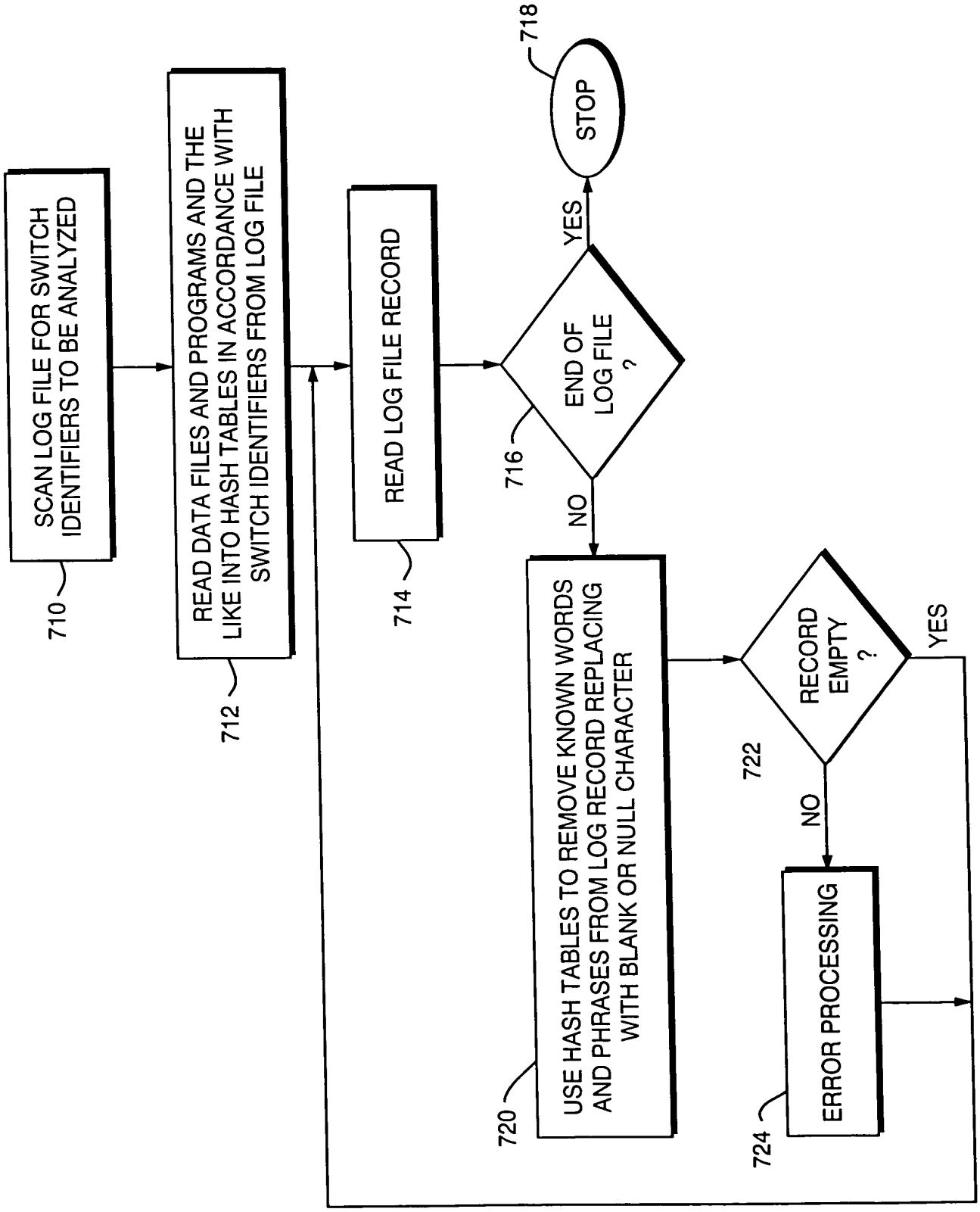
SCAN LOG FILE FOR SWITCH IDENTIFIERS TO BE ANALYZED
710
READ DATA FILES AND PROGRAMS AND THE LIKE INTO HASH TABLES IN ACCORDANCE WITH SWITCH IDENTIFIERS FROM LOG FILE
712
READ LOG FILE RECORD
714
END OF LOG FILE ?
716
YES
STOP
718
NO
USE HASH TABLES TO REMOVE KNOWN WORDS AND PHRASES FROM LOG RECORD REPLACING WITH BLANK OR NULL CHARACTER
720
RECORD EMPTY ?
722
YES
NO
ERROR PROCESSING
724

FIG. 23

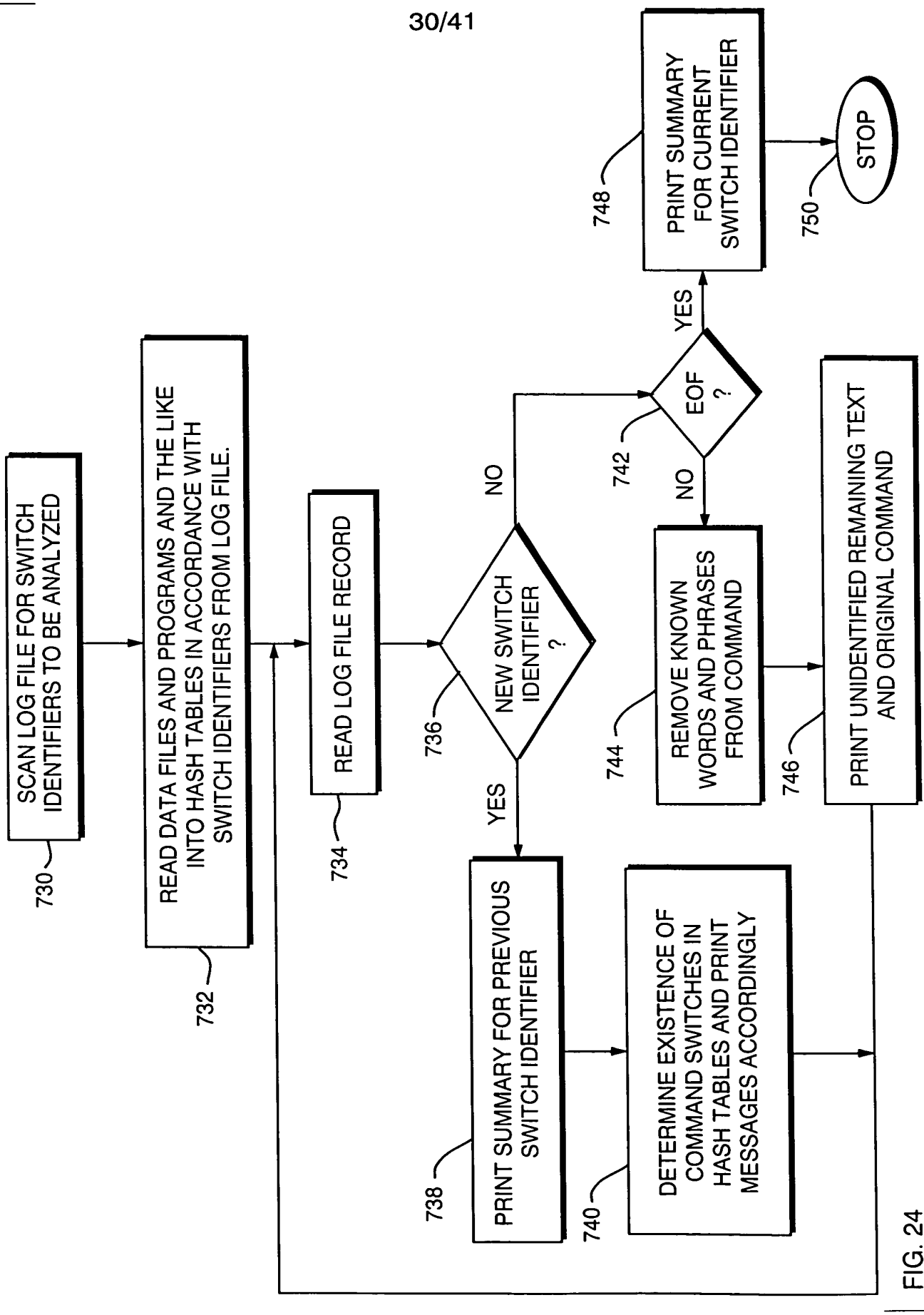
SCAN LOG FILE FOR SWITCH IDENTIFIERS TO BE ANALYZED
730
READ DATA FILES AND PROGRAMS AND THE LIKE INTO HASH TABLES IN ACCORDANCE WITH SWITCH IDENTIFIERS FROM LOG FILE.
732
READ LOG FILE RECORD
734
NEW SWITCH IDENTIFIER ?
736
NO
YES
EOF ?
742
NO
YES
REMOVE KNOWN WORDS AND PHRASES FROM COMMAND
744
PRINT UNIDENTIFIED REMAINING TEXT AND ORIGINAL COMMAND
746
PRINT SUMMARY FOR PREVIOUS SWITCH IDENTIFIER
738
DETERMINE EXISTENCE OF COMMAND SWITCHES IN HASH TABLES AND PRINT MESSAGES ACCORDINGLY
740
PRINT SUMMARY FOR CURRENT SWITCH IDENTIFIER
748
STOP
750

FIG. 24

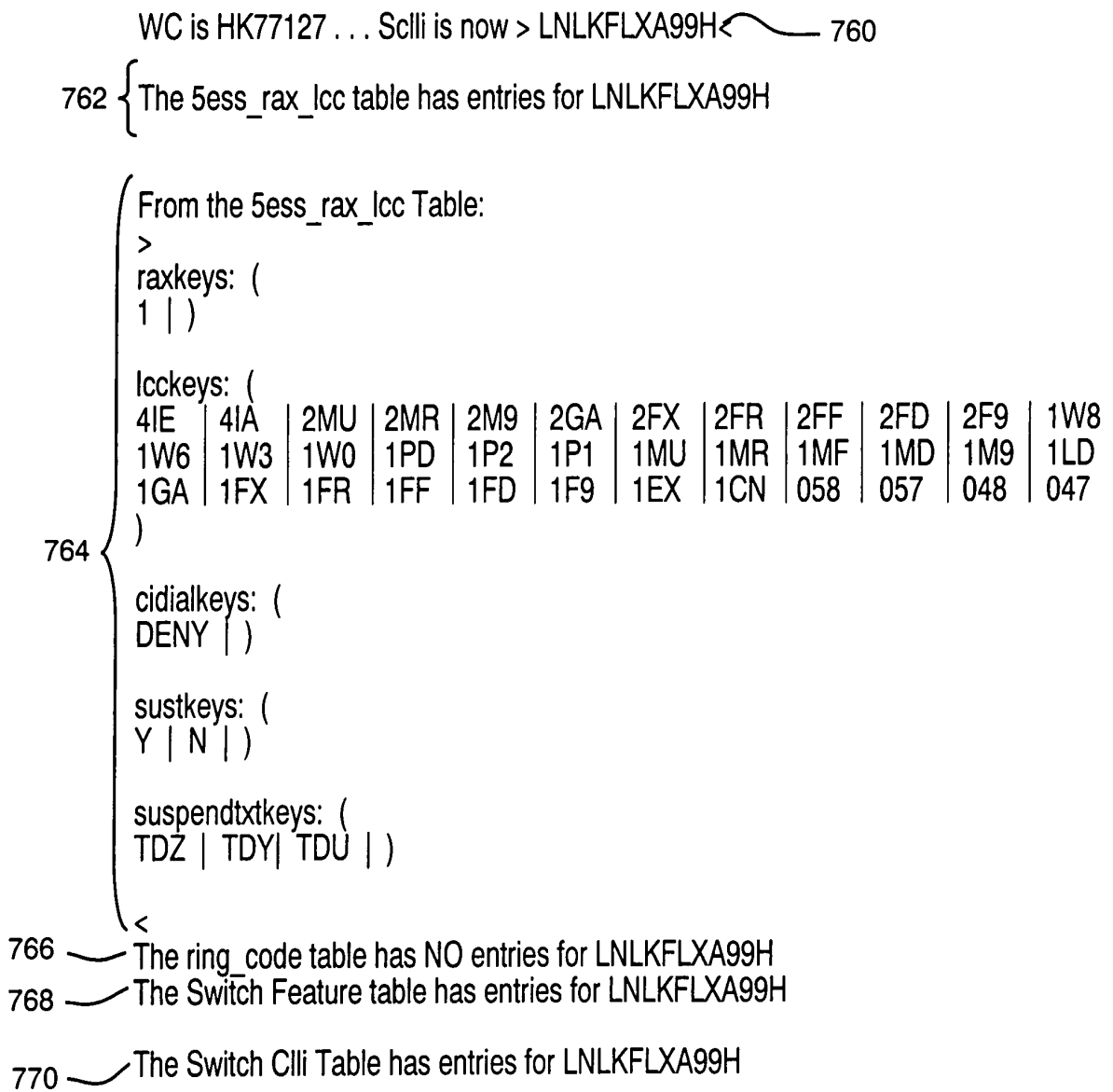
WC is HK77127 . . . Sclli is now > LNLKFLXA99H<
760
762
The 5ess_rax_lcc table has entries for LNLKFLXA99H
764
From the 5ess_rax_lcc Table:
>
raxkeys: (
1 |)
lcckeys: (
4IE | 4IA | 2MU | 2MR | 2M9 | 2GA | 2FX | 2FR | 2FF | 2FD | 2F9 | 1W8
1W6 | 1W3 | 1W0 | 1PD | 1P2 | 1P1 | 1MU | 1MR | 1MF | 1MD | 1M9 | 1LD
1GA | 1FX | 1FR | 1FF | 1FD | 1F9 | 1EX | 1CN | 058 | 057 | 048 | 047
)
cidialkeys: (
DENY |)
sustkeys: (
Y | N |)
suspendtxtkeys: (
TDZ | TDY| TDU |)
<
766
The ring_code table has NO entries for LNLKFLXA99H
768
The Switch Feature table has entries for LNLKFLXA99H
770
The Switch Clli Table has entries for LNLKFLXA99H

FIG. 25A

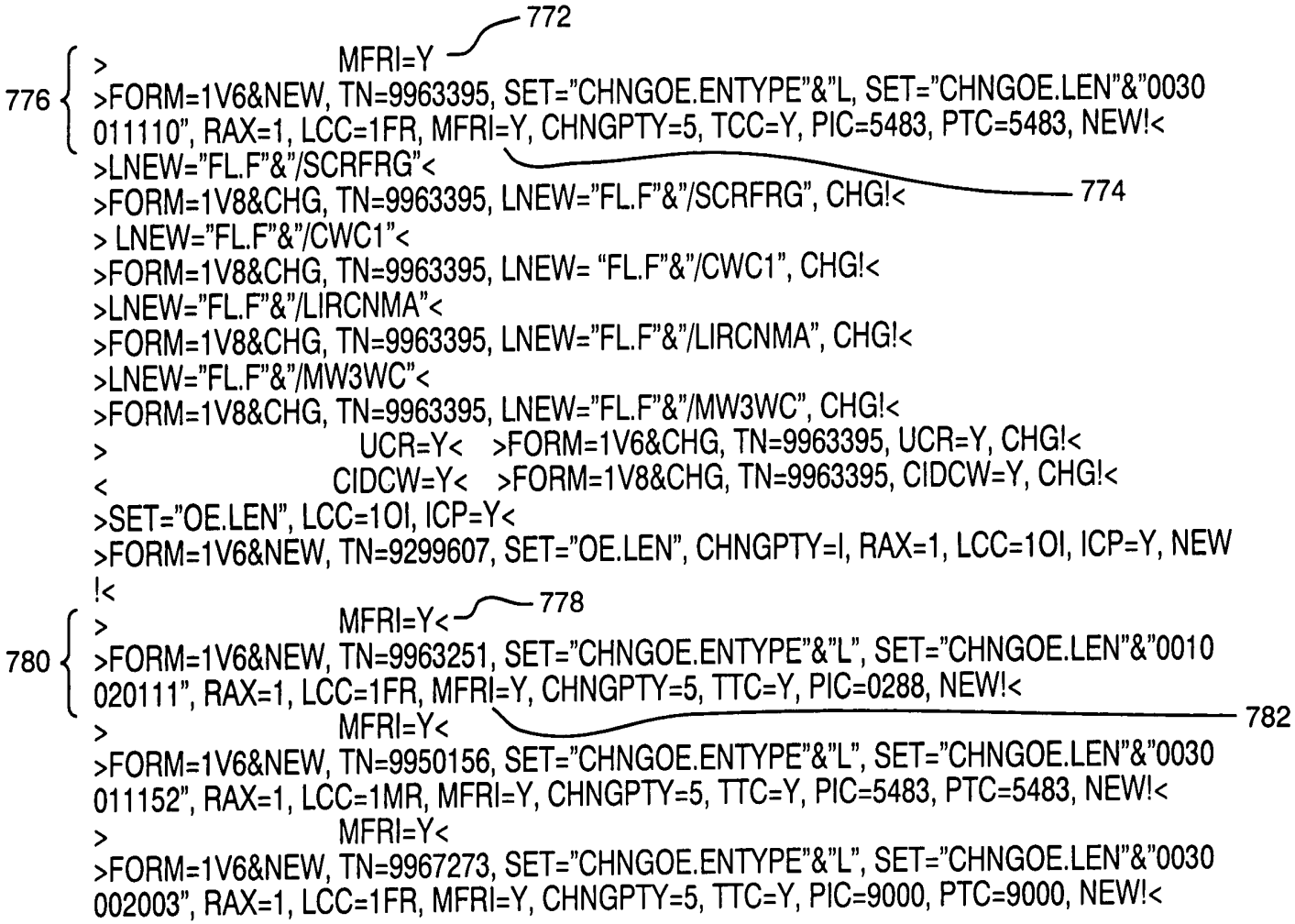
772
776
>
MFRI=Y
>FORM=1V6&NEW, TN=9963395, SET="CHNGOE.ENTYPE"&"L, SET="CHNGOE.LEN"&"0030
011110", RAX=1, LCC=1FR, MFRI=Y, CHNGPTY=5, TCC=Y, PIC=5483, PTC=5483, NEW!<
>LNEW="FL.F"&"/SCRFRG"<
>FORM=1V8&CHG, TN=9963395, LNEW="FL.F"&"/SCRFRG", CHG!<
774
> LNEW="FL.F"&"/CWC1"<
>FORM=1V8&CHG, TN=9963395, LNEW= "FL.F"&"/CWC1", CHG!<
>LNEW="FL.F"&"/LIRCNMA"<
>FORM=1V8&CHG, TN=9963395, LNEW="FL.F"&"/LIRCNMA", CHG!<
>LNEW="FL.F"&"/MW3WC"<
>FORM=1V8&CHG, TN=9963395, LNEW="FL.F"&"/MW3WC", CHG!<
> UCR=Y< >FORM=1V6&CHG, TN=9963395, UCR=Y, CHG!<
< CIDCW=Y< >FORM=1V8&CHG, TN=9963395, CIDCW=Y, CHG!<
>SET="OE.LEN", LCC=1OI, ICP=Y<
>FORM=1V6&NEW, TN=9299607, SET="OE.LEN", CHNGPTY=I, RAX=1, LCC=1OI, ICP=Y, NEW
!<
778
780
>
MFRI=Y<
>FORM=1V6&NEW, TN=9963251, SET="CHNGOE.ENTYPE"&"L", SET="CHNGOE.LEN"&"0010
020111", RAX=1, LCC=1FR, MFRI=Y, CHNGPTY=5, TTC=Y, PIC=0288, NEW!<
782
>
MFRI=Y<
>FORM=1V6&NEW, TN=9950156, SET="CHNGOE.ENTYPE"&"L", SET="CHNGOE.LEN"&"0030
011152", RAX=1, LCC=1MR, MFRI=Y, CHNGPTY=5, TTC=Y, PIC=5483, PTC=5483, NEW!<
>
MFRI=Y<
>FORM=1V6&NEW, TN=9967273, SET="CHNGOE.ENTYPE"&"L", SET="CHNGOE.LEN"&"0030
002003", RAX=1, LCC=1FR, MFRI=Y, CHNGPTY=5, TTC=Y, PIC=9000, PTC=9000, NEW!<

FIG. 25B

```
> LOUT="FL.F"&"/LAC1"<
>FORM=1V8&CHG, TN=9963013, LOUT="FL.F"&"/LAC1", CHG!<
>LNEW="FL.F"&"/LIRCNMA"<
>FORM=1V8&CHG, TN=9963013, LNEW="FL.F"&"/LIRCNMA", CHG!<
>LNEW="FL.F"&"/CFBLAC", LNEW="CF.F"&"/CFBLAC", LCHG="CF.F"&"/CFBLAC"-
"CF.DN"&"8139967826"<
>FORM=1V8&CHG, TN=9966030, LNEW="FL.F"&"/CFBLAC", LNEW="CF.F"&"/CFBLAC", LC
HG="CF.F"&"/CFBLAC"-"CF.DN"&"8139967826", CHG!<
>LCHG="CF.F"&"/CFBLAC"="CF.SI"&"3", LCHG="CF.F"&"/CFBLAC"-"CF.T"&"0"<
>FORM=1V8&CHG, TN=9966030, LCHG="CF.F"&"/CFBLAC"-
"CF.SI"&"3", LCHG="CF.F."&"/CFBLAC"-"CF.T"&"0", CHG!<
>LNEW="FL.F"&"CFDAVMS", LNEW="CF.F"&"CFDAVMS", LCHG="CF.F"&"CFDAVMS"-
"CF.DN"&"8139967826"<
>FORM=1V8&CHG, TN=9966030, LNEW="FL.F"&"CFDAVMS", LNEW="CF.F"&"CFDAVMS", LC
HG="CF.F"&"CFDAVMS"-"CF/DM"&"8139967826", CHG!<
>LCHG="CF.F"&"CFDAVMS"-"CF.SI"&"3", LCHG="CF.F"&"CFDAVMS"-
"CF.T"&20, LCHG="CF.F"&"CFDAVMS"-"CF.B"&"Y"<
>FORM=1V8&CHG, TN=9966030, LCHG="CF.F"&"CFDAVMS"-
"CF.SI"&"3", LCHG="CF.F"&"CFDAVMS"-"CF.T"&20, LCHG="CF.F"&"CFDAVMS"-
"CF.B"&"Y", CHG!<
> LNEW="FL.F"&"VMAIL"<
>FORM=1V8&CHG, TN=9966030, LNEW="FL.F"&"VMAIL", CHG!<
>    LOUT="FL.F"&"/CFV"<
>FORM=1V8&CHG, TN=9966030, LOUT="FL.F"&"/CFV", CHG!<
>                    MFRI=Y<
>FORM=1V6&NEW, TN=9959097, SET="CHNGOE.ENTYPE"&"L", SET="CHNGOE.LEN"&"0010
035142", RAX=1, LCC=1FR, MFRI=Y, CHNGPTY=5, TTC=Y, PIC=0333, PTC=0333, NEW!<
> LNEW="FL.F"&"/CWC1"<
>FORM=1V8&CHG, TN=9959097, LNEW="FL.F"&"/CWC1", CHG!<
```

TO FIG. 26B

FIG. 26A

FROM FIG. 26A

```
>              ARALW=<    >FORM=1V6&CHG, TN=9959097, ARALW=N, CHG!<
>              ACALW=<    >FORM=1V6&CHG, TN=9959097, ACALW=N, CHG!<
>         USTWCALW=<    >FORM=1V6&CHG, TN=9959097, USTWCALW=N, CHG!<
>LOUT= "FL.F "&"/LAC1"<
>FORM=1V8&CHG, TN=9959149, LOUT= "FL.F "&"/LAC1, CHG!<
>LNEW= "FL.F "&"/LIRCNMA"<
>FORM=1V8&CHG, TN=9959149, LNEW= "FL.F "&"/LIRCNMA", CHG!<
>LOUT= "FL.F "&"/CWC1"<
>FORM=1V8&CHG, TN=9962010, LOUT= "FL.F "&"/CWC1", CHG!<
>              ARALW=<    >FORM=1V6&CHG, TN=9966047, ARALW=N, CHG!<
>              ACALW=<    >FORM=1V6&CHG, TN=9966047, ACALW=N, CHG!<
>         USTWCALW=<    >FORM=1V6&CHG, TN=9966047, USTWCALW=N, CHG!<
>LNEW= "FL.F "&"/SCRFRG"<
>FORM=1V8&CHG, TN=9960240, LNEW= "FL.F "&"/SCRFRG", CHG!<
>LNEW= "FL.F "&"/CWC1"<
>FORM=1V8&CHG, TN+9960240, LNEW= "FL.F "&"/CWC1", CHG!<
>LNEW= "FL.F "&"/LIRCNMA"<
>FORM=1V8&CHG, TN=9960240, LNEW= "FL.F "&"/LIRCNMA", CHG!<
>LNEW= "FL.F "&"/CFV"<
>FORM=1V8&CHG, TN=9960240, LNEW= "FL.F "&"/CFV", CHG!<
```

784

786

```
Leftover words for 2434 records from LNLKFLXA99H, HK77127  were:
(MFRI=Y | LNEW= "FL.F "&"/SCRFRG" | LNEW= "FL.F "&"/CWC1" | LNEW= "FL.F "&"/LIRCNMA
" | LNEW= "FL.F "&"/MW3WC" | UCR=Y | CIDCW=Y | SET= "OE.LEN" | LCC=10I | ICP=Y | LOUT= "F
L.F "&"/LAC1" | LNEW= "FL.F "&"/CFBLAC" |
```

FIG. 26B

LNEW= "CF.F "&"/CFLCAC"|LCHG= "CF.F "&"/CFBLAC"-
"CF.DN "&"8139967826"|LCHG= "CF.F "&"/CFBLAC"-
"CF.SI "&"3"|LCHG= "CF.F "&"/CFBLAC"-
"CF.T "&"0"|LNEW= "FL.F "&"CFDAVMS"|LNEW= "CF.F "&"CFDAVMS|LCHG= "CF.F "&"CFD
AVMS"- "CF.DN "&"8139967826"|LCHG= "CF.F "&"CFDAVMS"-
"CF.SI "&"3"|LCHG= "CF.F "&"CFDAVMS"- "CF.T "&20|LCHG= "CF.F "&" CFDAVMS"-
"CF.B "&"Y"|LNEW= "FL.F "&"VMAIL"|LOUT= "FL.F "&"/CFV"|
ARALW=|ACALW=|USTWCALW=|LOUT= "FL.F "&"/CWC1"|LNEW= "FL.F "&"/CFV"|G"|PLIT=
Y | LOUT= "FL.F "&"/ SCRFRG"|LOUT= "FL.F "&"/MW3WC"|UCRACTIVE=|UCR=N|SUSO=|
LNEW= "FL.F "&"/LAR1"|LNEW= "FL.F "&"/LAC1"|LOUT= "FL.F "&"/SCAFR" |CIDCW=|LOU
T= "FL.F "&"/SC1C"|COTALW=|LNEW= "FL.F "&"/SDAFR"|LNEW= "FL.F "&"/SCAFR"|LNEW
= "FL.F "&"/COT1" |LNEW= "FL.F "&"/SCFFR" |LNEW= "FL.F "&"/SC2C" |LOUT= "FL.F "&"/
LIRCNMA"|
PRIVACY=Y|LNEW= "FL.F "&"/DIGA"|BLK1PLUS=NONE|COIN=DTF|PCPALW=|LOUT= "FL.F
"&"VMAIL"|LOUT= "FL.F "&"/CFBLAC"|LOUT= "FL.F "&"CFDAVMS"|LOUT= "FL.F "&"CFDA
CCR"|LNEW= "FL.F "&"/ASPTERM"|FORM=1V64&CHG|TN=9950064|
FEATURE="/ASPTERM"|SET= "TA.TRIGNBR "&"12"|SET= "TA.TRIGACT "&"Y"|SET= "INTE
R "&"3"|LOUT= "FL.F "&"/LAR1"|LOUT= "FL.F "&"/SDAFR"|LOUT= "FL.F "&"/SCFFR"|LO
UT= "FL.F "&"/SC2C"|LNEW= "FL.F "&"ACMTLBLK"|ANI7=Y|LOUT= "FL.F "&"/LICNDA"|L
NEW= "FL.F "&"/SC1C"|
PRIVACY=|LOUT= "FL.F "&"/DIGA"|ARALW=Y|ACALW=Y|USTWCALW=Y|LNEW= "FL.F "&"/L
ICNDA"|LOUT= "FL.F "&"ACMTLBLK"|ANI7=|SERHLN=9969995|SERHLN=9963691|LCC=E
F1|FORM=1V11&CHG|
TN=9963277|LNEW= "FEATLIST.FEATURE "&"/CFR"|FORM=1V22&CHG|FEATURE="/CFR"|
FWDTODN=8139299347|SERHLN=9961754|SERHLN=9966575|SERHLN=9967195|SERHLN=
9961735|SERHLN=9961864|)

TO FIG. 27B

FIG. 27A

FROM FIG. 27A

784

788

Switch Features Table words for LNLKFLXA99H, HK77127, were:
(N|L|, USTWCALW=Y, CHG|, UCRACTIVE=N, UCR=N, CHG|, LOUT= "FL.F "&"CFVBL", CHG|, L
OUT= "FL.F "&"CFDAF", CHG|, LOUT= "FL.F "&"CFBLF", CHG|, LOUT= "FL.F "&"/SDAFR", C
HG|, LOUT= "FL.F "&"/SCRFRG", CHG|, LOUT= "FL.F "&"/SCFFR", CHG|, LOUT= "FL.F "&"/
SCAFR", CHG|, LOUT= "FL.F "&"/SC2C", CHG|, LOUT= "FL.F "&"/SC1C", CHG|, LOUT= "FL.
F "&"/MW3WC", CHG|, LOUT= "FL.F "&"/MSAAVM", CHG|, LOUT= "FL.F "&"/MSAAD", CHG|, L
OUT= "FL.F "&"/LIRCNMA", CHG|, LOUT= "FL.F "&"/LICNDA", CHG|, LOUT= "FL.F "&"/LAR
1", CHG|, LOUT= "FL.F "&"/LAC1", CHG|, LOUT= "FL.F "&"/DIGA", PRIVACY=N, CHG|, LOU
T= "FL.F "&"/CWT", CHG|, LOUT= "FL.F "&"/CWC1", CHG|, LOUT= "FL.F "&"/CFV", CHG|, L
OUT= "FL.F "&"/CFBLAC", CHG|, COTALW=N, CHG|, CIDCW=N, CHG|, ARALW=Y, CHG| ,ACALW
=Y, CHG|)

The Switch CLLI table has entries for LNLKFLXA99H

The 5ess_rax_lcc table has entries for WSSDFLXADS0

raxkeys: (
1 |)

lcckeys: (

4IE	4IA	2MU	2MR	2M9	2GA	2FX	2FR	2FF	2FD	2F9	1W8
1W6	1W3	1W0	1PD	1P2	1P1	1MU	1MR	1MF	1MD	1M9	1LD
1GA	1FX	1FR	1FF	1FD	1F9	1EX	1CN	058	057	048	047

)

cidialkeys: (
DENY |)

sustkeys: (
Y | N |)

FIG. 27B

suspendtxtkeys: (
TDZ | TDY | TDU |)

)

Entries for LNLKFLXA99H, HK77127, were not found in the ring_code Table

FIG. 28

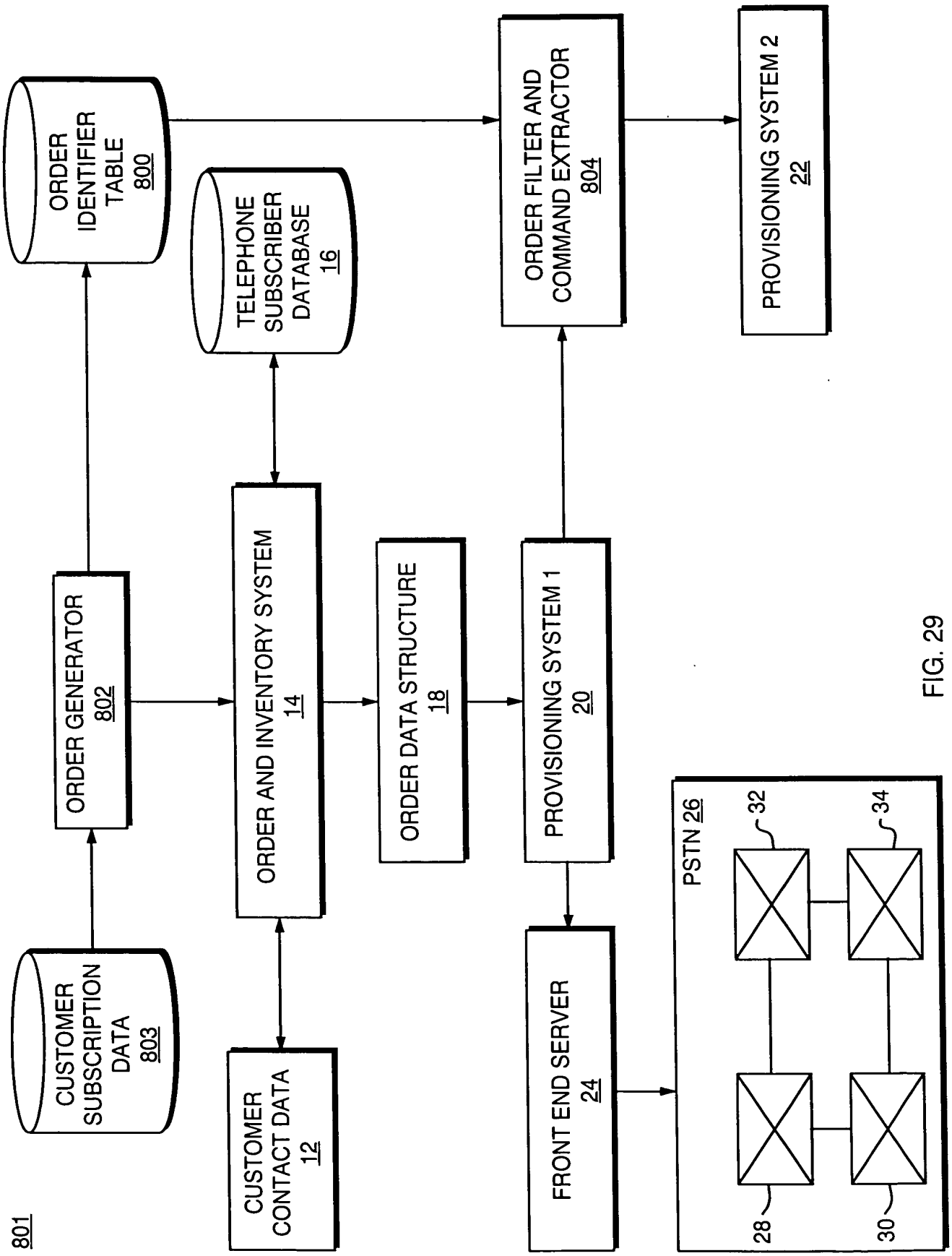
ORDER IDENTIFIER TABLE 800
TELEPHONE SUBSCRIBER DATABASE 16
ORDER FILTER AND COMMAND EXTRACTOR 804
PROVISIONING SYSTEM 2 22
ORDER GENERATOR 802
ORDER AND INVENTORY SYSTEM 14
ORDER DATA STRUCTURE 18
PROVISIONING SYSTEM 1 20
CUSTOMER SUBSCRIPTION DATA 803
CUSTOMER CONTACT DATA 12
FRONT END SERVER 24
PSTN 26
32
34
28
30
801

FIG. 29

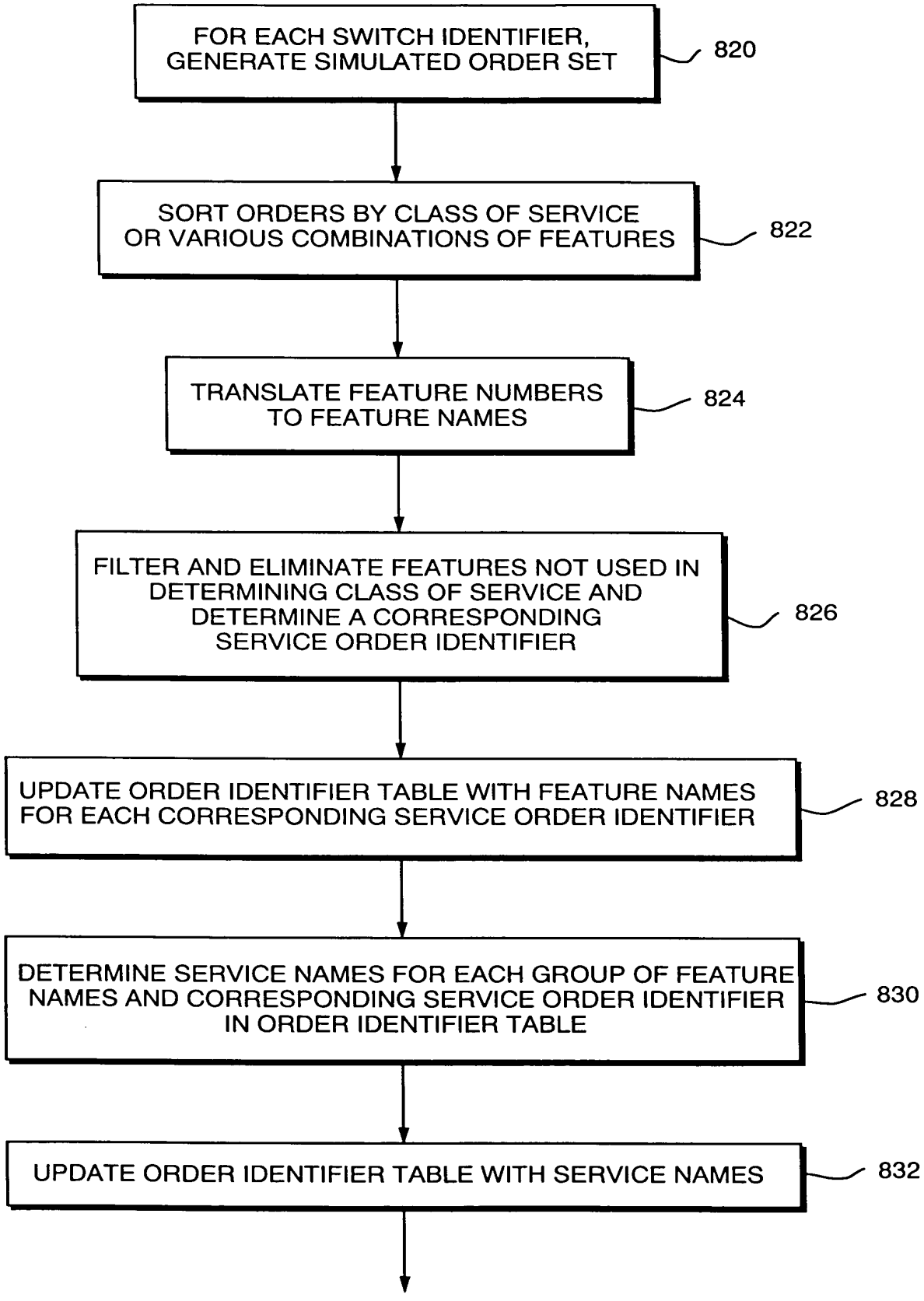
FOR EACH SWITCH IDENTIFIER, GENERATE SIMULATED ORDER SET
820
SORT ORDERS BY CLASS OF SERVICE OR VARIOUS COMBINATIONS OF FEATURES
822
TRANSLATE FEATURE NUMBERS TO FEATURE NAMES
824
FILTER AND ELIMINATE FEATURES NOT USED IN DETERMINING CLASS OF SERVICE AND DETERMINE A CORRESPONDING SERVICE ORDER IDENTIFIER
826
UPDATE ORDER IDENTIFIER TABLE WITH FEATURE NAMES FOR EACH CORRESPONDING SERVICE ORDER IDENTIFIER
828
DETERMINE SERVICE NAMES FOR EACH GROUP OF FEATURE NAMES AND CORRESPONDING SERVICE ORDER IDENTIFIER IN ORDER IDENTIFIER TABLE
830
UPDATE ORDER IDENTIFIER TABLE WITH SERVICE NAMES
832
TO 840
FIG. 31

FIG. 30

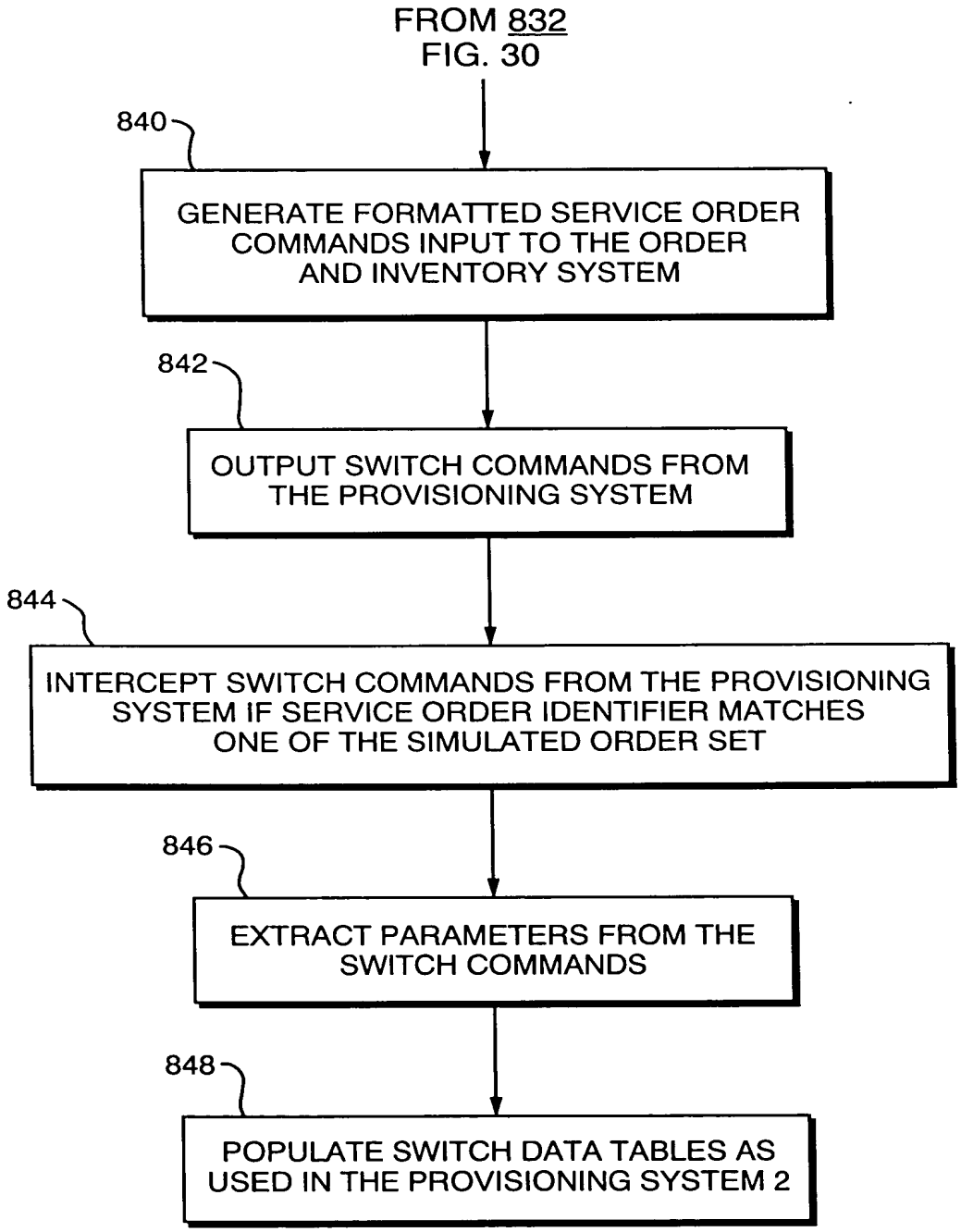
FROM 832
FIG. 30
840
GENERATE FORMATTED SERVICE ORDER COMMANDS INPUT TO THE ORDER AND INVENTORY SYSTEM
842
OUTPUT SWITCH COMMANDS FROM THE PROVISIONING SYSTEM
844
INTERCEPT SWITCH COMMANDS FROM THE PROVISIONING SYSTEM IF SERVICE ORDER IDENTIFIER MATCHES ONE OF THE SIMULATED ORDER SET
846
EXTRACT PARAMETERS FROM THE SWITCH COMMANDS
848
POPULATE SWITCH DATA TABLES AS USED IN THE PROVISIONING SYSTEM 2

FIG. 31

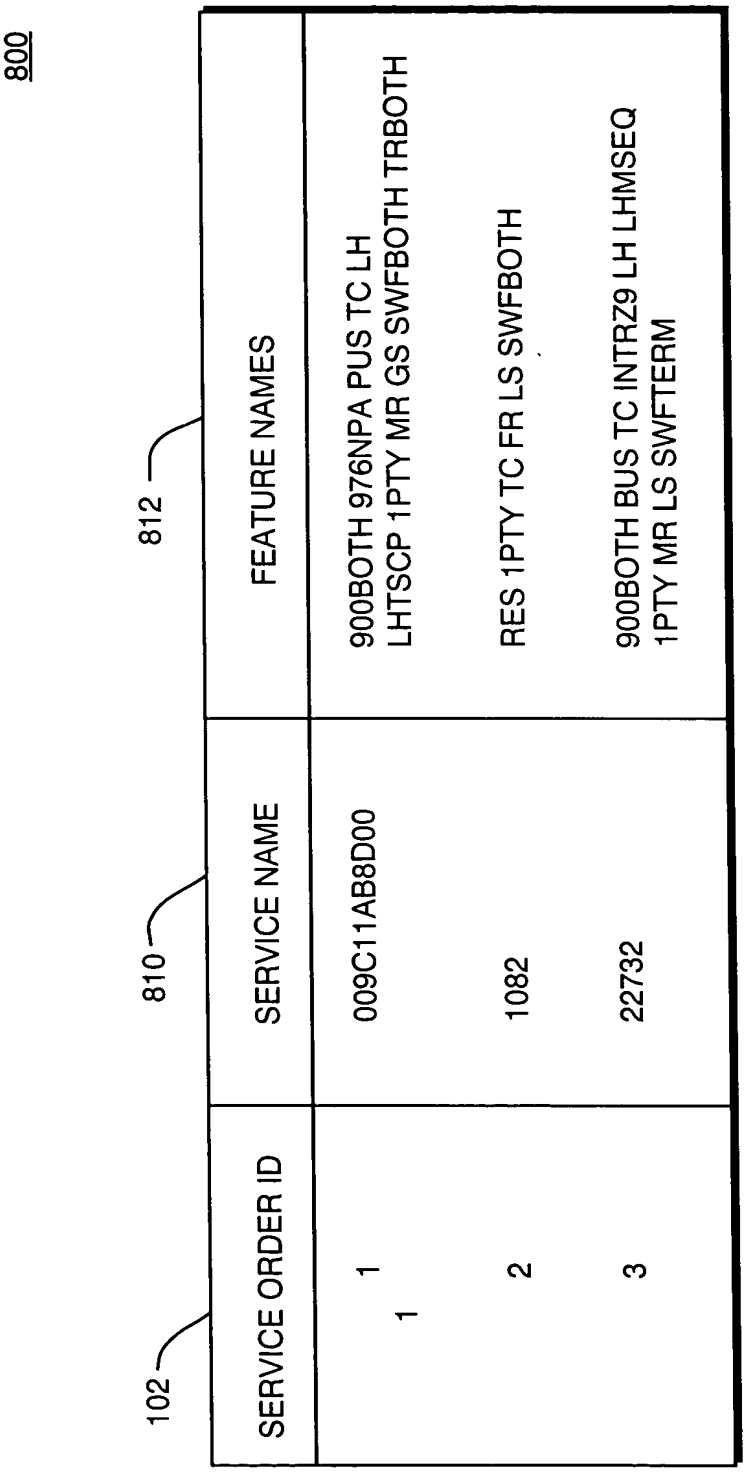
800
102
810
812
SERVICE ORDER ID
SERVICE NAME
FEATURE NAMES
1
1
009C11AB8D00
900BOTH 976NPA PUS TC LH
LHTSCP 1PTY MR GS SWFBOTH TRBOTH
2
1082
RES 1PTY TC FR LS SWFBOTH
3
22732
900BOTH BUS TC INTRZ9 LH LHMSEQ
1PTY MR LS SWFTERM

FIG. 32